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Post-Dredge / Existing Conditions Report New Bedford Harbor Dredge Project – Phase III February 2010

1.0 Introduction

This Report of Existing Conditions has been prepared by Apex Companies, LLC for the New Bedford Harbor Development Commission (NBHDC) upon completion of the New Bedford Phase III Dredge Project. The New Bedford Harbor Dredge Project – Phase III included construction of CAD Cell #2 in two phases (Top of CAD and Bottom of CAD) and the maintenance dredging of portions of the New Bedford Rowing Facility boat basin, Packer Marine, Tonnesson Park, South Terminal, Gifford Street Boat Ramp, Niemiec Marine in New Bedford, Massachusetts and Linberg Marine, Olde North Wharf Fisheries, Fairhaven Shipyard, Steamship Authority, Union Wharf, Warren Alexander (South) in Fairhaven, Massachusetts. Work for NBHDC was completed under contract numbers HDC-FY08-006, HDC-FY08-007, HDC-FY09-001A and HDC-FY09-001B (Steamship Authority dredging was contracted privately).

2.0 Background

The City of New Bedford and the Town of Fairhaven are located on the south coast of Massachusetts between Cape Cod and Fall River, Massachusetts. New Bedford Harbor is an approximately mile-long, narrow, protected embayment that stretches from the mouth of the Acushnet River (at the north), to a large hurricane dyke and flood control structure at the entrance to Buzzards Bay (on the south). Historically, New Bedford Harbor was one of the dominant shipping ports on the east coast. During the 19th Century, textile mills and manufacturing facilities were built on the edge of the Harbor to take advantage of the access to the working waterfront. Electrical transformer manufacturing industries moved into the New Bedford Harbor waterfront area and operated from the 1940's to 1970's. With this electronic component manufacturing came new types of waste discharge into the Harbor. Polychlorinated Biphenyl (PCB) contaminated oils and byproducts made their way into the Harbor through sewer lines and other outfalls, contaminating the sediments on the bottom of the Harbor. By the 1970s, sediment sampling and testing conducted by environmental officials revealed that significant concentrations of metals and PCBs existed in the Harbor bottom sediments.

From the 1970s to the 1990s, the U.S. Environmental Protection Agency (USEPA) and the Massachusetts Department of Environmental Protection (MassDEP) studied the nature and extent of the contamination in the harbor, collecting the information required to develop a remedy for the problem. In 1998, the USEPA signed the Record of Decision (ROD) for the New Bedford Harbor Superfund Site, which prescribed that the remedy for the Harbor would be focused on the removal of contaminated sediments with PCB concentrations in excess of cleanup standards set for various locations within the Harbor. The cleanup standards varied depending upon the location of the contamination: 50 parts per million (ppm or mg/kg) was designated for deeper water areas, where direct contact was not likely; 10 ppm was designated for mudflat and shallow water areas accessible at low tide; 25 ppm was designated for beach combing shoreline areas; and 10 ppm was designated for residential shoreline areas. This designation effectively split the Harbor into two categories: those areas with sediments exceeding the cleanup standards where contaminated sediments would be removed by the USEPA; and those sediments with PCB concentrations below the cleanup standards that would be left in place. This remedy was presented in the ROD (see Section 2.3 below).

Because of the presence of contaminants in most of the sediments from the bottom of New Bedford Harbor, and the high cost and uncertainty of dealing with those contaminated sediments, maintenance dredging of Harbor areas for navigation has not occurred for over 40 years. As a result, sediment has collected in many critical areas within the Harbor: from the Federal Navigational Channel, to the slips and berthings at the piers, to the fairways and driveways of the Harbor wharf areas. As a result, many of the businesses that utilize the pier and wharf areas have experienced a decrease in the amount and type of vessels that can be accommodated. In order to maintain their existing maritime uses, and offer opportunities for growth and development, the City of New Bedford, the Town of Fairhaven, and the New Bedford Harbor Development Commission (NBHDC) have made maintenance dredging of critical Harbor areas a priority for the new millennium.

2.1 New Bedford Harbor Dredge – Phase I

The first phase of the New Bedford Harbor dredge project began with the deepening of the slip on the south side of the New Bedford State Pier in New Bedford Harbor, and the fairway and a portion of the channel leading up to the Pier. This project was identified by the City of New Bedford as a critical element in the revitalization of the working waterfront, as the City was actively trying to attract new and larger vessels to the City. Sediment build-up at the State Pier had precluded the use of the pier by some of the larger deep draft vessels the City was attempting to attract. Work on Phase I began in 2001, and dredging of the project area was completed by the end of 2002. For this project, approximately 75,000 yards of contaminated sediment was dredged from the area to the south of the State Pier and the fairways leading there-to. The material was dewatered and stabilized with a lime and cement mixture, and was placed on the CSX Rail Site next to New Bedford Harbor. The placed material was utilized to cap areas of the rail-yard site that contained levels of PCB contamination greater than the dredged sediments, utilizing the "anti-degradation" provision (310 CMR 40.0030) in the Massachusetts Contingency Plan. The dredged material was placed into berms around the edge of the rail-yard site, covered with topsoil and seeded with grass. The first phase of the dredging was done without the use of the State Enhanced Remedy (see Section 2.3).

2.2 New Bedford Harbor Dredge - Phase II

The New Bedford Harbor Dredge Project – Phase II included the maintenance dredging of portions of Maritime Terminal, Norpel Terminal, Whites Terminal, South-of-Route 6 Bridge, and Niemiec Marine in New Bedford, Massachusetts, and the Warren Alexander Property, D.N. Kelley & Son, Linberg Marine, and Pease Park properties, in Fairhaven, Massachusetts. These properties were included in the Phase II Dredge Project because of their need for dredging to remove shoaled sediment, and the economic benefit the area would receive form the increase in commerce. Bathymetric soundings of the areas of interest had been collected by Apex, and that information was compared with bathymetric charts and other data previously collected by the U.S. Army Corps of Engineers (USACE) and the US Environmental Protection Agency (USEPA). The data indicated that the conditions in the noted dredge areas represented a safety issue for certain types of vessels that visit those piers and wharfs. In order to address this situation, the New Bedford Harbor Development Commission and the Town of Fairhaven (through the NBHDC), decided to undertake the New Bedford Harbor Dredge Project – Phase II to deepen the aforementioned areas.

One of the most challenging aspects of the Phase II Dredge Project was identifying a suitable disposal alternative for the dredged contaminated sediments. During the late 1990's and into 2003, MACZM had undertaken a State-wide Dredge Materials Management Plan (DMMP) in order to address the issue of the disposal of contaminated dredge materials, which many of the Cities and Towns within the Commonwealth were wrestling with. As part of the State-wide DMMP study, MACZM evaluated the placement of Confined Aqueous Disposal (CAD) Cells in several harbors, including New Bedford

Harbor. After evaluation, MACZM determined that CAD Cells represented a viable sediment disposal alternative for New Bedford Harbor. After completion of a feasibility study and a siting analysis that evaluated several potential CAD Cell locations within the Harbor, MACZM determined that the most advantageous location for CAD Cells in New Bedford Harbor was the area to the north of Popes Island in the middle portion of New Bedford Harbor. A permitting program was undertaken by MACZM that involved all relevant resource and regulatory agencies, and resulted in the area to the north of Popes Island in New Bedford Harbor being permitted for CAD Cells for maintenance dredge materials.

Upon review of the viable sediment disposal options for maintenance dredge material, the New Bedford Harbor Dredge Project – Phase II project team determined that CAD Cells within New Bedford Harbor represented the most viable option for disposal of the maintenance dredge material from the Phase III Dredge Project. Design of CAD Cell #1 was completed by Apex, and the disposal of maintenance dredge materials from the Phase II Dredge project dredge areas was allowed for disposal in the newly designed CAD Cells.

The Phase II Dredge Project included the design and construction of a transitional Confined Aquatic Disposal (CAD) Cell located within the Borrow Pit as well as the design and construction of CAD Cell #1, located adjacent to the Borrow Pit. Clean sediment generated during construction of CAD Cell #1 was used to cap portions of OU-3, located immediately outside of the Hurricane Barrier. The New Bedford Harbor Phase II Dredge Project began in January 2005 and was completed in two parts: the initial area of dredging occurred on the north side of Fish Island in New Bedford Harbor; the second part involved dredging at the remainder of the North Terminal area and other Fairhaven areas. The NBHDC completed Phase II harbor maintenance dredging in January 2006, removing more than 156,000 cubic yards (cy) of material from sites in New Bedford and Fairhaven.

2.3 Permitting – State Enhanced Remedy (SER)

Because contaminated sediments exist over much of the bottom of New Bedford Harbor, the usual navigational dredging process would simply not work. Upland disposal of the million or so total cubic yards of material that will ultimately need to be removed from the Harbor to keep it fully functional was not an option, both from a cost standpoint (costs for upland disposal would have been prohibitive), and from a logistics standpoint (there simply was not a local disposal site that could accommodate the volumes). Also, because of the PCB contamination, the USEPA signed a Record of Decision (ROD) for the remediation of the New Bedford Harbor Superfund Site in 1998. The ROD included a provision called the State Enhanced Remedy (SER) [see 40CFR300.515(f)], which allowed for certain maintenance dredging to fall within the Superfund process. The MassDEP requested that the SER be included in the ROD and was endorsed by the City of New Bedford, Massachusetts Executive Office of Environmental Affairs (EOEA), and the local state representatives. The SER provision allowed for maintenance dredging to occur without following the full permitting process usually required for maintenance dredge projects. This streamlining of the approval process for individual dredge projects, and the adoption of a programmatic approach to maintenance dredging in New Bedford Harbor has allowed maintenance dredging to move forward, and allowed the New Bedford Harbor Dredge Project - Phase III to be completed.

The State Enhanced Remedy (SER) under the New Bedford Harbor Superfund Site requires oversight management by MassDEP, with coordination with a number of Federal, State and Local authorities including MassDEP, USACE, USEPA, the National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Division of Marine Fisheries (DMF), Massachusetts Coastal Zone Management (MACZM), EOEA, and the Coalition for Buzzards Bay. The SER process requires the completion of As-Built Plans and the submission of After-Action Submittals after the completion of dredge projects completed under the SER.

Under the SER, NBHDC and Apex discuss project plans and performance standards with the Resource Agencies mentioned above. Project plans and performance standards were reviewed and updated after receiving comments from the Resource Agencies. The NBHDC and Apex attended meetings between Resource Agencies and prepared and submitted planning and information documents for use by Resource Agencies.

The NBHDC and Apex prepared and submitted planning and information documents for applicable Resource Agencies under the SER. These documents included a Project Work Plan, a Sampling and Analysis Plan, project plans and proposed dredge footprints, and a specifications package. Prior to completion of planning documents, Apex discussed project plans with the Town of Fairhaven, the NBHDC and Resource Agencies to determine any requirements and/or concerns that needed to be covered under the information documents. The NBHDC and Apex worked closely with the MassDEP Project Manager to expedite conversations between agencies. The NBHDC and Apex addressed any comments made by agencies and revised documents as necessary.

The NBHDC and Apex conducted the necessary regulatory interface with MassDEP during the course of this work. Regulatory interface was required to ensure that the SER process was followed and that the sampling and analysis activities conducted were consistent with the enhanced remedy. The MassDEP Project Manager was the regulatory point-of-contact for the NBHDC and Apex, and interacted with USEPA and the other State resource agencies as appropriate to ensure that all agencies were afforded appropriate review of SER submittals (i.e. SAP) and input regarding project planning. As part of the regulatory interface the MassDEP field oversight during the dredging.

2.4 Dredge Area Engineering

The New Bedford Harbor Phase III Dredge Project began in September 2006 and was completed in four parts: the removal of the top of CAD Cell #2 (with the placement of the material within CAD Cell #1), the dredging of clean sediment from within CAD Cell #2 (with disposal of some material at the Cape Cod Bay Disposal Site and some material used as a pilot cap for the Borrow Pit CAD Cell), the dredging of areas north of the Coggeshall Street Bridge (Phase III Navigational Dredge – Part B), and the dredging of areas south of the Coggeshall Street Bridge (Phase III Navigational Dredge – Part A).

The navigational dredging portion of the project, totaled sixteen separate dredge footprints at eleven separate properties (See also Figure 1), including:

- ➤ Packer Marine 2,288 cy
- ➤ Niemiec Marine 2,312 cy
- ➤ South Terminal 2,691 cy
- ➤ Gifford Street Boat Ramp 10,880 cy
- ➤ New Bedford Rowing Facility 4,190 cy
- ➤ Tonnesson Park 1,266 cy
- ➤ Olde North Wharf Fisheries 1,403 cy
- ➤ Fairhaven Shipyard 344 cy
- \triangleright Union Wharf 1,109 cy
- ➤ Linberg Marine 1,773 cy
- ➤ Warren Alexander (South) 2,142 cy
- ➤ Steamship Authority 22,381 cy
- ➤ Summary Total Phase III Navigational Dredging: 52,779 cy

As part of the dredging project, CAD Cell #2 was constructed. CAD Cell #2 was sited immediately to the north of the Borrow Pit CAD Cell and CAD Cell #1, north and northwest of Pope's Island. The construction of the CAD Cell proceeded as two separate projects, with 34,210 cy of material presumed to be impacted with PCBs excavated from the top of the CAD Cell and placed within CAD Cell #1. Subsequent to the removal of the Top of CAD Cell material, 120,060 cy of material was excavated and transported to the Cape Cod Bay Disposal Site to finish creation of CAD Cell #2. CAD Cell #2 received sediment from the Phase III dredge sites in New Bedford and Fairhaven, with some additional capacity reserved for future use. The dredging for Phase III was completed in September of 2009, when the last of the Phase III dredging at South Terminal and Gifford Street Boat Ramp were completed.

Under this contract and Dredge Project, Apex has submitted the following documents to the New Bedford Harbor Development Commission:

- Pre-Design Investigations Work Plan: August 2006
- Pre-Design Investigations Sampling and Analysis Plan: August 2006
- Pre-Design Investigations Site Specific Health and Safety Plan: August 2006
- CAD Cell Siting and Pre-Design Investigations Work Plan: April, 2007
- CAD Cell Siting and Pre-Design Investigations Sampling and Analysis Plan: June, 2007
- Top of CAD Cell Subsurface Data Conditions Report: May 2008
- Top of CAD Cell, Plans and Specifications: May 2008
- Top of CAD Contractor Oversight Plan (COP): May 2008
- Top of CAD Water Quality Monitoring Plan: May 2008
- Top of CAD Site Specific Health and Safety Plan: May 2008
- Steamship Authority, Plans and Specifications: May 2008
- Bottom of CAD Cell Subsurface Data Conditions Report: June 2008
- Bottom of CAD Cell, Plans and Specifications: June 2008
- Steamship Authority Contractor Oversight Plan (COP): July 2008
- Steamship Authority Water Quality Monitoring Plan: July 2008
- Steamship Authority Site Specific Health and Safety Plan: July 2008
- Bottom of CAD Contractor Oversight Plan (COP): August 2008
- Bottom of CAD Water Quality Monitoring Plan: August 2008
- Bottom of CAD Site Specific Health and Safety Plan: August 2008
- Navigational Dredging Subsurface Data Conditions Report for New Bedford Harbor Dredge Phase III: January 2009
- New Bedford Harbor Navigational Dredge Phase III Part A, Plans and Specifications January 2009
- New Bedford Harbor Navigational Dredge Phase III Part B, Plans and Specifications January 2009
- Navigational Dredging Contractor Oversight Plan: February 2009
- Navigational Dredging Site Specific Health and Safety Plan: February 2009
- Navigational Dredging Water Quality Monitoring Plan: February 2009

2.5 Monitoring and Oversight

Throughout the Dredge Project, Apex made sure the work was monitored order to ensure that work progressed smoothly and as safely as possible, in line with the Healthy and Safety Plan. A member of Apex personnel was at the site and directly involved with overseeing the project.

In order to monitor the success and progress of the work itself, bathymetric surveys were conducted in excavation and placement areas. The scow location during placement and dewatering of the scows were also closely monitored. Apex personnel used a Global Positioning System (GPS) to double check that scows were placed in the correct locations.

Additionally, as a means of monitoring the sediment of the maintenance material, several methods of examination were used on a regular basis. Sediment probes were utilized in order to measure the thickness of the maintenance material. Vibracores were used as a way of surveying the benthic organisms present in the sediment. Furthermore, chemical analyses were performed before and after dredging events to monitor the levels of various chemicals that may have been present before and after dredging.

3.0 Construction

The NBHDC managed and oversaw the construction activities. Construction operations were performed in such a manner as to comply with the specific performance criteria established during the design phase of the project. Where possible, the intent was to allow the contractor to determine appropriate means and methods of construction, subject to the controls and performance criteria contained in the project specifications. Proposed means and methods and adherence to design and performance criteria were evaluated using the pre-construction submittal review process. A control plan to ensure conformance to performance criteria was a Contractor submittal requirement.

3.1 Construction Oversight – CAD Cells

CAD Cell construction as well as CAD Cell filling operations were subject to operational controls developed during Phase II project design and updated and continued for utilization during Phase III. Project-specific water quality criteria developed by MassDEP with the assistance of other Resource Agencies that participate in the State Enhanced Remedy applied to CAD Cell construction, filling operations, as well as dredging and other operations (such as sediment dewatering). Means and methods for discharge of materials into CAD Cell were developed to ensure compliance with water quality criteria. The discussions between MassDEP, and USACE and USEPA (as part of the design process) regarding previous projects were valuable relative to evaluating discharge requirements. Methods evaluated included use of split hull barges, as well as placement of sediment into the cell using clamshell equipment. Some combination of operational controls were required during filling operations, such as use of silt curtains down-gradient or around the active CAD cell or dredge area, use of oil-absorbent booms, discharge at depth vs. at surface, etc. Details were determined during the design process, and were modified as necessary during construction operations.

3.1.1 CAD Cell Construction

The project involved the construction of CAD Cell #2, a 92,000 cubic yard CAD cell north and northwest of Pope's Island in New Bedford Harbor. CAD Cell #2 was located to the north of the Borrow Pit CAD Cell as well as CAD Cell #1. Dredging of the top of CAD Cell #2 and placement of material in CAD Cell #1 began in June 2008, operating 24 hours a day, and was completed in July of 2008. Dredging of the bottom of CAD Cell #2 and placement of material as a pilot cap on the Borrow Pit CAD Cell or disposal of material at the Cape Cod Bay Disposal site began in August of 2008 and was completed in October of 2008. The material removed during Bottom of CAD had been tested for standard offshore disposal chemical parameters, and the material had been designated as acceptable offshore disposal at the Cape Cod Bay Disposal Site by the USACE. The construction of the CAD cell was an important aspect of the project because PCB contaminated material located throughout the harbor were removed as part of the New Bedford Harbor Dredge Project – Phase III and disposed of in the CAD cell.

During the dredging, Apex provided resident engineering services and acted as Owner's Representative for construction oversight and Quality Control of the project to ensure all phases were performed expeditiously and in accordance with the plans and specifications. The initial scope of work for this project included pre-engineering studies, design, and implementation of the sampling and analysis program.

Apex performed a preliminary engineering evaluation during the planning phase of the project. These activities included; establishing preliminary dredge limits with associated volume estimates for the construction of the CAD cell, research and evaluation of disposal options including off-shore disposal in the USACE Cape Cod Bay Disposal Site (CCBDS) and/or the placement of the material as a cap over the Borrow Pit, upland disposal, use of the material as beach nourishment, use of the material for capping at OU-3, and the preparation of a preliminary conceptual methodology for the project.

Apex conducted a sediment sampling and analysis program of the proposed dredge area in addition to completing multiple bathymetric surveys, detailed sediment characterization, and cultural and hazard identification survey utilizing a complimentary suite of marine geophysical techniques, including sidescan sonar, sub-bottom profiling, and marine magnetics.

3.2 Construction Oversight – Dredge Areas

3.2.1 Dredge Area Introduction

Establishment of performance standards, including water quality criteria, mandated dredging operations. Dredge methods were selected to achieve water quality standards. Dredging of material required implementation of controls such as use of an environmental (sealed) bucket, silt curtains, oil absorbent booms, reduced cycle times, etc. Specifications and requirement details were determined through the design process. In accordance with the New Bedford Harbor Development Commission – Phase III work plan, Apex completed navigational dredging at locations (listed below) within New Bedford Harbor.

3.2.2 Dredge Area Descriptions

The New Bedford Harbor Dredge Project – Phase III included construction of CAD Cell #2 in two phases (Top of CAD and Bottom of CAD) and the maintenance dredging of portions of the New Bedford Rowing Facility boat basin, Packer Marine, Tonnesson Park, South Terminal, Gifford Street Boat Ramp, Niemiec Marine in New Bedford, Massachusetts and Linberg Marine, Olde North Wharf Fisheries, Fairhaven Shipyard, Union Wharf, Steamship Authority, and Warren Alexander (South) in Fairhaven, Massachusetts. The work performed is described below:

Top of CAD Cell #2

Soft organic maintenance-type material was removed from the surface of the New Bedford CAD Cell #2. The initial excavation at the (removal of contaminated organics) CAD cell was dredged from an average elevation of between -4 MLLW and -7 MLLW to an average depth of between -6 and -9 MLLW. Dredged material from CAD Cell #2 was placed into CAD Cell #1, a CAD Cell created during the New Bedford Harbor Dredge Project – Phase II, but had not been completely filled during that project. It was intended that the remaining space within CAD Cell #1 be reserved for the top of CAD Cell #2. Similarly, space within CAD Cell #2 will be reserved for the top of a future CAD Cell. Approximately 34,210 cy of material was excavated and disposed of within CAD Cell #1 as part of this portion of the project. The Top of CAD Cell project began on June 13, 2008 and was completed on July 13, 2008. Top of CAD Cell Drawings are attached as Figures 1 through 4.

Steamship Authority

The first navigational dredging project completed during Phase III was the dredging of the Steamship Authority Terminal in Fairhaven, Massachusetts. The Steamship Authority pier is located on the southern end of the Designated Port Area of Fairhaven, Massachusetts. It is a filled pier that has docking on both the northern and southern sides of the pier. The work at the facility was part of a larger project that involved rehabilitation of the facility, installation of sheet piling and a new storage and office facility. Dredging at Steamship Authority began on July 31, 2008 and ended on September 11, 2008. At the time that Steamship Authority dredging commenced, CAD Cell #2 was not complete; however, there was sufficient space within CAD Cell #1 (after placement of the Top of CAD Cell #2) for the dredge material from Steamship Authority. Therefore, the dredge spoils from Steamship Authority were placed within CAD Cell #2. Both the northern and southern footprints were dredged to -15 MLLW. Steamship Authority Drawings are attached as Figures 5 through 6.

Bottom of CAD Cell #2

On August 26, 2008, dredging to complete the excavation of CAD Cell #2 to its full capacity began. 120,060 cubic yards of clean material was excavated from within the CAD footprint to create the desired disposal volume space, and the clean material removed from the CAD footprint was either barged to the Cape Cod Bay Disposal Site (CCBDS) or to the Borrow Pit, where it was placed over a portion of the CAD Cell as a pilot cap. The excavation and disposal/capping was completed on October 9, 2008. Bottom of CAD Cell Drawings are attached as Figures 7 through 10.

Navigational Dredge – Part B

On March 20, 2009, work began on Part B of the Phase III Navigational Dredge Project. The Navigational Dredge Project was broken into two parts that were bid separately due to logistical issues associated with Part B that required a separate set of equipment from that within Part A. Specifically, the work within Part B was to take place north of the Route 195 and Coggeshall Street Bridges, within the Upper New Bedford Harbor. The clearance under these bridges is extremely low, and required specific modifications to equipment (including ballasting scows to lower their elevation) in order to complete the work. It was anticipated that Part A of Navigational Dredging would require more conventional techniques, and therefore it seemed prudent to bid the work out separately. The only dredge footprint that was completed during Part B of Navigational Dredging was the New Bedford Rowing Facility footprint. That footprint was dredged to -5 MLLW, and 4,190 cubic yards of material were removed and placed within CAD Cell #2. Part B of Navigational Dredging was completed on April 14, 2009.

Navigational Dredge – Part A

Part A of the Phase III Navigational Dredge Project included the remaining navigational dredging properties, including Packer Marine, Tonnesson Park, South Terminal, Gifford Street Boat Ramp, and Niemiec Marine in New Bedford and Linberg Marine, Olde North Wharf Fisheries, Fairhaven Shipyard, Union Wharf, and Warren Alexander (South) in Fairhaven. The selected contractor for Part A chose to move from dredge footprint to dredge footprint frequently. As a result, it is difficult to list start and end dates for individual footprints; however, Part A as a whole began on April 20, 2009 and was completed on September 24, 2009. The following is a table outlining the target dredge depth and volume dredged for each of the Part A locations:

Dredge Area	Dredge Volume (cy)	Targret Dredge Depth(s) (MLLW)
Gifford Street Boat Ramp	10,880	-7 and -9
South Terminal	2,691	-20
Tonnesson Park	1,266	-6, -8, and -15
Niemiec Marine	2,312	-10
Packer Marine	2,288	-14
Linberg Marine	1,773	-10
Olde North Wharf Fisheries	1,403	-6, -10 and -12
Fairhaven Shipyard	344	-17 and -18
Union Wharf	1,109	-8 and -16
Warren Alexander (South)	2,142	-13 and -15

The Pre-Dredge Drawings for Part A and Part B of Navigational Dredging are attached as Figures 11 through 20. The Post-Dredge Drawings for Part A and Part B of Navigational Dredging are attached as Figures 21 through 32. The total volume dredged as part of the New Bedford Harbor Dredge Project – Phase III was 207,049 cubic yards.

4.0 Post-Dredge Conditions

Following the completion of the Dredge Project, further monitoring was conducted as a means of examining the conditions of the dredge areas post-construction. Re-sampling and surveying were completed to verify that sustainable conditions were present in the Harbor. Samples of sediment were collected and analyzed for the presence of PCBs. Bathymetric surveys were conducted by Apex, in an effort to confirm Apex's findings. Conditions necessary to resolve contract issues were met and satisfied in order to come to project closure.

4.1 Sediment Chemistry: Pre- and Post-Dredge

The following sections describe sampling and analysis activities that were conducted prior to dredging of the Phase III dredge areas and sampling and analysis that occurred after the dredging in order to document post-dredge conditions.

4.1.1 Pre-Dredge Sediment Chemistry

Prior to the start of dredging, sediment samples were collected in order to characterize background conditions of sediment chemistry within the proposed dredge footprints. The samples were analyzed for PCBs, via the 21 NOAA congeners. The 18 NOAA Congeners were selected from the 21 analyzed congeners, were added and multiplied by 2.6 (a factor identified by USEPA as a good correlation between the 18 congeners and a "total PCBs" number) in order to calculate total PCBs in sediment. Seventeen pre-dredge samples were collected from the various footprints within Part A and Part B of Navigational Dredging. Some data collected by USEPA (during its investigation into the New Bedford Superfund Site) was utilized to characterize the dredge material within the New Bedford Rowing Facility footprint. In addition to PCBs, some samples were also collected and analyzed for the following constituents: MassDEP EPH, RCRA 8 Metals, and reactive sulfide. Of all the pre-dredge PCB levels recorded, the highest value was 370 ppm (within a sample collected by USEPA within the New Bedford Rowing Facility Footprint). South of the Coggeshall Street Bridge, the highest concentration was 61.3 ppm (collected within the Packer Marine footprint). The range of PCB levels that was recorded was 0.2 ppm to 370 ppm. Pre-Dredge analytical data is summarized within Tables 1 through 5. Pre-Dredge

analytical data reports are attached within Appendix A. Pre-Dredge sample locations are indicated on Figures 33 through 41.

4.1.2 Post-Dredge Sediment Chemistry

In an effort to compare Post-Dredge sediment PCB impacts with Pre-Dredge conditions, and evaluate the improvement of particular areas, Apex sampled the sediment after dredging was complete and recorded the remaining conditions. After dredging was complete, eight sediment samples were collected, all being tested for PCBs. Again, NOAA Congener reporting was used, which is consistent with the pre-dredge method, and the summation of the 18 NOAA congeners was calculated in accordance with USEPA's methodology (via summation and multiplication by a factor of 2.6) to generate a Total PCB result. Therefore, comparison of PCB levels provides an accurate representation of the Pre- and Post- dredge difference. Each Post-Dredge sediment sample collected indicated a decrease (or no change) in PCB concentrations in sediment. The highest reported value of PCBs recorded from the post-dredge samples was 37.1 ppm, from a sample taken in the New Bedford Rowing Facility area (north of the Coggeshall Street Bridge). The Pre-Dredge sample results from this location ranged from 4.3 ppm to 370 ppm. The overall range of PCB levels among the Post-Dredge samples was found to be 0.03 ppm to 37.1 ppm. Post-Dredge analytical data is summarized within Table 6. Post-Dredge analytical data reports are attached within Appendix A. Post-Dredge sample locations are indicated on Figures 33 through 41.

The following table outlines the Pre-Dredge sampling results and compares them to the Post-Dredge Sampling results:

PRE-DREDGE AND POST DREDGE SAMPLE RESULTS

Location	Pre-Dredge P	CB Result (p	pm)	Post-Dredge PCB	Result (ppn	1)
Location	Sample ID	Date	Result	Sample ID	Date	Result
Gifford Street	VC-05-08	11/13/2008	7.7	POST_012010_G1	1/20/2010	2.1
Boat Basin	VC-16-08 (0- 1.5')	11/21/2008	7.0			
Tonnesson Park	VC-07C-08	11/17/2008	22.1	POST_012010_TP2	1/20/2010	0.03
Union Wharf	325 0-1	10/25/2006	17.0	POST_012010_UW1	1/20/2010	5.0
Union whari	321 0-1	10/25/2006	4.6			
Packer Marine	VC_24-08 (0-1')	11/24/2008	61.3	POST_012010_PACK1	1/20/2010	0.1
	S-3613-2.1-2.6	8/20/2001	370	POST_012010_BHB1	1/20/2010	37.1
New Bedford	S-3613-2.6-3.1	8/20/2001	4.3			
Rowing Facility	S-205316	None Listed	83			
Olde North	309 0-1	10/24/2006	4.4	POST_012010_ONWF1	1/20/2010	1.8
Wharf Fisheries	310 0-1	10/24/2006	13.2		7	
,, 11411 1 151101105	311 0-1	10/24/2006	5.3			
	329 0-1	10/23/2006	7.2	Steamship Composite 1	8/5/2009	3.4
Steamship	330 0-1	10/23/2006	18.0			
Authority	331 0-1	10/25/2006	0.2	POST_012010_SA1	1/20/2010	0.2
	332A 0-1	10/23/2006	0.2			

4.1.3 PCB Mass Removal Calculations

In order to attempt to quantify the mass of PCBs that has been removed during Steamship Authority, Part A and Part B of Phase III Navigational Dredging several sets of calculations were completed. PCB mass is a relatively qualitative measure for determining the environmental benefit created during sediment removal and therefore, there is no one specific methodology for calculating the mass removed. Several methodologies were considered before utilizing the methodology outlined below. The Pre-Dredge concentrations were averaged over the area of a footprint. For the New Bedford Rowing Facility, data was available from USEPA along a vertical profile (instead of multiple locations at the surface). Due to relatively high concentrations at this location, and it's relative influence over the total mass removed, it was determined to average over the vertical profile of the pre-dredge samples, rather than to average the shallowest sample with the post-dredge sample; as a result, instead of averaging the pre- and post-dredge analytical data, the data was subtracted instead. It was assumed (for the purposes of this exercise) that the difference between the two concentrations would be representative of the concentration of the dredged sediment, since an average over the vertical profile had already been included within the calculations for the New Bedford Rowing Facility. The difference was then multiplied by the final dredge volume, which was assumed to have a density of 1.5 tons per cubic yard. The final mass was calculated in pounds of PCBs removed. The following chart shows the calculated masses and the total estimated mass removed.

Estimate of PCB Mass Removed (Phase III Navigational Dredging)

Dredge Area	Final Volume (CY)	Pre-Dredge Conc. (mg/kg)	Post (mg/kg)	Difference (mg/kg)	Mass Removed (lbs)
South Terminal	2,691	7.35	2.1	5.3	42
Union Wharf	1,109	10.8	5	5.8	19
Tonnesson Park	1,266	22.1	0.03	22.1	84
Gifford Street Boat Ramp	10,880	7.35	2.1	5.3	171
Olde North Wharf Fisheries (North)	1,295	8.8	1.8	7.0	27
Warren Alexander (South)	2,142	12.6	3.4	9.2	59
Olde North Wharf Fisheries (South)	108	5.3	1.8	3.5	1.1
Niemiec Marine	2,312	1.2	N/A	N/A	N/A
Fairhaven Shipyard	344	N/A	N/A	N/A	N/A
Linberg Marine	1,773	N/A	N/A	N/A	N/A
Packer Marine	2,288	61.3	0.1	61.2	420
New Bedford Rowing Facility	4,190	152.4	37.1	115.3	1450
Steamship Authority North	5,686	12.6	3.4	9.2	157
Steamship Authority South	16,695	0.222	0.206	0.02	0.8
			Tota	al Mass Removed:	2,432

5.0 Monitoring Results

The water quality was monitored during CAD Cell construction, and during the dredging and material placement operations for the New Bedford Harbor Dredge – Phase III from June 13, 2008 through August

25, 2009. Water quality monitoring was performed in accordance with the following Water Quality Monitoring Plans (WQMP):

- Top of CAD Water Quality Monitoring Plan: May 2008
- Steamship Authority Water Quality Monitoring Plan: July 2008
- Bottom of CAD Water Quality Monitoring Plan: August 2008
- Navigational Dredging Water Quality Monitoring Plan: February 2009

Following the guidelines of the respective WQMP, monitoring locations for water turbidity recorded an average turbidity over various water depths, up and down-current from the dredge or material placement operations, depending on tide. The values recorded as the Reference Site Turbidity were taken from upcurrent monitoring locations, or from monitoring events which occurred before dredge or material placement operations began. The Reference Turbidity Value was then compared to down-current turbidity values measured at regular time intervals after operations had begun.

The monitoring results were broken up into 5 periods of dredging and material placement that Apex oversaw in New Bedford Harbor during Phase III of the State Enhanced Remedy Dredge Project (Top of CAD, Steamship Authority, Bottom of CAD, Part B of Navigational Dredging and Part A of Navigational Dredging). At each monitoring location, various samples around the area were taken in order to get a thorough indication of water quality.

The Top of CAD project took place between June 13, 2008 and July 13, 2008 and included approximately 34,210 cubic yards of material being dredged from the area in which CAD Cell #2 was to be constructed, and placed into CAD Cell #1. In monitoring the water quality, no exceedances of the WQMP turbidity guidelines was detected for either dredging or disposal operations.

The Steamship Authority navigational dredge project took place between July 31, 2008 and September 11, 2008 and involved the dredging areas north and south of the Steamship Authority pier and placement of that material within CAD Cell #1. This portion of the project involved dredging 22,381 cubic yards of material. In monitoring the water quality for the dredging, no exceedances of the WQMP turbidity guidelines were detected for either dredging or disposal operations. On 8/26/08, turbidity measurements at the Steamship Authority down-current location [18.47 NTU] were 18.17 NTU higher than the measurements at the up-current location [0.3 NTU]. This event represented the greatest difference between up-current and down-current turbidity monitoring detected during Phase III dredging; however, the difference was not greater than the WQMP turbidity guidelines [which stipulates that if the reference site turbidity is less than 10 NTU, that the permissible turbidity increase is no more than the reference plus 20 NTU].

The Bottom of CAD project took place between August 26, 2008 and October 9, 2008 and involved the excavation of clean material from CAD Cell #2, and the use of that material either during the placement of a pilot cap at the Borrow Pit or the transportation and disposal of the material at the Cape Cod Bay Disposal Site (CCBDS). In monitoring the water quality, no exceedances of the WQMP turbidity guidelines was detected for Bottom of CAD operations.

The Navigational Dredge – Part B project took place between March 20, 2009 and April 14, 2009 and involved the dredging of 4,190 cubic yards from the New Bedford Rowing Facility area and the placement of that material within CAD Cell #2. In monitoring the water quality, exceedances of the WQMP turbidity guidelines were not detected for the Navigational Dredge – Part B operations.

The Navigational Dredge – Part A project took place between April 20, 2009 and September 24, 2009 and involved the dredging of 26,208 cubic yards from Packer Marine, Tonnesson Park, South Terminal, Gifford Street Boat Ramp, and Niemiec Marine in New Bedford and Linberg Marine, Olde North Wharf Fisheries, Fairhaven Shipyard, Union Wharf, and Warren Alexander (South) in Fairhaven and the placement of that material within CAD Cell #2. In monitoring the water quality, exceedances of the WQMP turbidity guidelines were not detected for the Navigational Dredge – Part A operations.

Copies of the water quality monitoring sheets completed in the field are attached as Appendix B. Water quality monitoring data is summarized within Table 7.

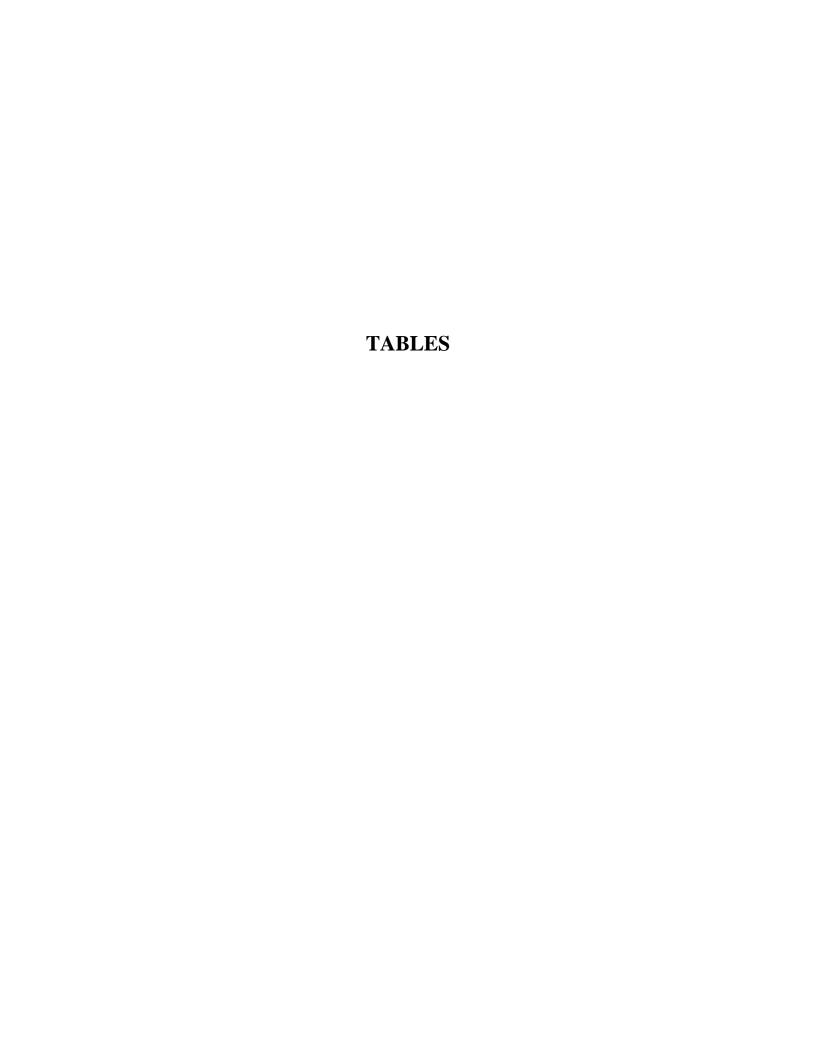
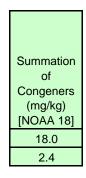


Table 1:
Analytical Data: Linberg Marine
Phase III Harbor Maintenance Dredge Program
New Bedford, Massachusetts

								Ext	ractab	le Pet	oleum	Hydro	carbor	ns (μg/l	kg)							
Sample Name	Collection Date	C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	Unadjusted C11-C22 Aroma	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
307A 0-1	39013	300000	1300000	310000	320000	830	830	830	830	830	830	830	1000	2000	990	890	1300	830	920	1700	1700	830
308 0-1	39013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

		M	letals	(mg/k	(g)		
Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
5.9	32	4.4	260	190	1.4	1.8	0.94
NS	NS	NS	NS	NS	NS	NS	NS

										PC	B Con	gener	s (μg/k	g)									
Sample Name	Collection Date	CI2-BZ#5/#8	Cl3-BZ#18	Cl3-BZ#28/#31	Cl4-BZ#44	CI4-BZ#52	Cl4-BZ#43/#49	CI4-BZ#66	CI5-BZ#101/#84	CI5-BZ#87	CI7-BZ#184	CIS-BZ#105	CI5-BZ#118	CI7-BZ#183	CI6-BZ#167/#128	CI6-BZ#138/#163	CI6-BZ#153	CI7-BZ#170/#190	CI7-BZ#180	CI7-BZ#182/#187	CI8-BZ#195		CI10-BZ#209
307A 0-1	10/23/2006	87	300	1500	370	570	620	740	920	270	0.31	290	760	29	130	540	460	54	100	66	9.2	19	3.8
308 0-1	10/23/2006	14	33	190	39	84	94	84	120	32	0.24	36	110	4.1	20	80	80	8.3	12	9.6	1.1	1.6	1.1



S G Reactive Sulfide (mg/kg)

Notes

 $\ensuremath{\mathsf{U}}$ = Concentration is below the laboratory's method detection limit.

NS = Not sampled.

Table 2:
Analytical Data: Olde North Wharf Fisheries
Phase III Harbor Maintenance Dredge Program
New Bedford, Massachusetts

								Ext	ractab	le Petr	oleum	Hydro	carbon	ıs (μg/l	(g)							
Sample Name	Collection Date	C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	Unadjusted C11-C22 Aroma	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
309 0-1	10/24/2006	48000	300000	100000	110000	650	650	650	650	650	650	650	860	1800	650	650	650	650	650	1300	1300	650
310 0-1	10/24/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
311 0-1	10/24/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

		M	etals	(mg/k	g)		
Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
6	160	1	56	360	1	1	0
NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS

										PC	B Con	gener	s (μg/k	g)									
Sample Name	Collection Date	CI2-BZ#5/#8	Cl3-BZ#18	Cl3-BZ#28/#31	Cl4-BZ#44	Cl4-BZ#52	Cl4-BZ#43/#49	Cl4-BZ#66	CI5-BZ#101/#84	CIS-BZ#87	CI7-BZ#184	CI5-BZ#105	CI5-BZ#118	CI7-BZ#183	CI6-BZ#167/#128	CI6-BZ#138/#163	CI6-BZ#153	CI7-BZ#170/#190	CI7-BZ#180	CI7-BZ#182/#187	CI8-BZ#195	CI9-BZ#206	CI10-BZ#209
309 0-1	10/24/2006	26	57	330	73	160	180	140	240	61	0	65	200	7	36	150	140	15	24	16	2	3	2
310 0-1	10/24/2006	85	260	1100	280	420	420	460	700	220	0	210	530	19	98	420	350	42	65	46	6	5	3
311 0-1	10/24/2006	29	65	390	95	170	200	190	300	78	0	81	240	9	43	180	160	20	32	21	3	3	1

Summation
of
Congeners
(mg/kg)
[NOAA 18]
4.4
13.2
5.3

Notes

U = Concentration is below the laboratory's method detection limit.

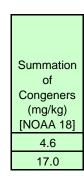
NS = Not sampled.

Table 3:
Analytical Data: Union Wharf
Phase III Harbor Maintenance Dredge Program
New Bedford, Massachusetts

								Extra	actable	Petro	leum F	Hydroc	arbons	(μg/kg	g)							
Sample Name	Collection Date	C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	Unadjusted C11-C22 Aroma	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
321 0-1	10/25/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
325 0-1	10/25/2006	880000	2200000	1000000	1100000	1000	1000	1000	1000	1000	2400	1200	8500	10000	5700	5200	5600	2400	4100	3700	3700	2800

		M	etals	(mg/k	.g)		
Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
NS	NS	NS	NS	NS	NS	NS	NS
20	330	5.1	200	3000	3.0	1.2	7.3

										PCE	3 Cong	geners	(μg/kg	J)									
Sample Name	Collection Date	CI2-BZ#5/#8	Cl3-BZ#18	Cl3-BZ#28/#31	Cl4-BZ#44	CI4-BZ#52	Cl4-BZ#43/#49	CI4-BZ#66	CI5-BZ#101/#84	CI5-BZ#87	CI7-BZ#184	CI5-BZ#105	CI5-BZ#118	CI7-BZ#183	CI6-BZ#167/#128	CI6-BZ#138/#163	CI6-BZ#153	CI7-BZ#170/#190	CI7-BZ#180	CI7-BZ#182/#187	CI8-BZ#195	Cl9-BZ#206	CI10-BZ#209
321 0-1	10/25/2006	24	68	270	82	120	110	140	170	45	0.28	46	97	43	22	180	180	77	170	96	18	8.8	0.36
325 0-1	10/25/2006	73	150	720	220	370	320	350	940	280	0.37	250	620	120	150	810	870	210	440	300	42	33	9.4



6 6 Reactive Sulfide (mg/kg)

Notes

U = Concentration is below the laboratory's method detection limit.

NS = Not sampled.

Table 4: Analytical Data: Steamship Authority Pre-Dredge Locations
Phase III Harbor Maintenance Dredge Program New Bedford, Massachusetts

										PC	CB Conge	eners (μ	g/kg)										
Sample Name	Collection Date	CI2-BZ#5/#8	Cl3-BZ#18	Cl3-BZ#28/#31	Cl4-BZ#44	CI4-BZ#52	Cl4-BZ#43/#49	Cl4-BZ#66	CI5-BZ#101/#84	CI5-BZ#87	CI7-BZ#184	CI5-BZ#105	CI5-BZ#118	CI7-BZ#183	CI6-BZ#167/#128	CI6-BZ#138/#163	CI6-BZ#153	CI7-BZ#170/#190	CI7-BZ#180	CI7-BZ#182/#187	뿌	Cl9-BZ#206	CI10-BZ#209
329 0-1	10/23/2006	48	87	540	120	260	290	220	370	90	0.7 U	97	310	18	57	240	260	37	69	46	7.3	7.3	1.7
330 0-1	10/23/2006	140	260	1300	340	600	620	600	930	260	2.4 U	250	680	56	140	580	570	110	210	140	26.0	22.0	6.3
331 0-1	10/25/2006	2	3	14	4	8	9	6	12	2	0.33 U	3	9	2	3	8	10	2	4	3	0.33 U	0.33 U	0.33 U
332A 0-1	10/23/2006	2	3	14	4	7	8	5	11	3	0.19 U	3	8	1	2	7	8	1	3	2	0.7	0.19 U	0.3

Summation of Congeners (mg/kg) [NOAA 18]
7.2
18.0
0.234
0.210

Notes: U = Concentration is below the laboratory's method detection limit. NS = Not sampled.

Table 5: **Analytical Data: Additional Pre-Dredge Locations** Phase III Harbor Maintenance Dredge Program **New Bedford, Massachusetts**

									Extracta	ble Petro	leum Hy	drocarbo	ns (μg	/kg)								
Sample Name	Collection Date	C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	Unadjusted C11-C22 Aromatics	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
VC-07G-08	11/17/2008	25000	213000	152000	185000	803 U	803 U	803 U	803 U	803 U	3790	803	6330	5250	2920	3180	2740	2470	2520	2040	803	1880
VC-21-08 (0-1')	11/24/2008	116000	919000	499000	517000	926 U	926 U	926 U	926 U	926 U	1290	926 U	2740	2890	1400	1670	1640	1660	1890	1330	926 U	1330

				ı	Metals	s (mg/	kg)		
Sample Name	Collection Date	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
VC-05-08	11/13/2008	4.58	20	1.59	82.7	64.4	0.729	0.793	0.283
VC-07C-08	11/17/2008	6.6	87.2	8.01	86.5	547	0.744	11.9	0.803
VC-16-08	11/21/2008	8.22	44.4	0.948	57.7	107	1.2	0.524	0.641
VC-19-08	11/24/2008	9.39	83.5	5.31	707	265	1.57	3.74	0.907
VC-23-08	11/24/2008	1.98	4.54	0.128	16.1	15.3	0.269	0.146	0.0345
VC-24-08	11/24/2008	13.6	92.1	6.27	442	508	1.94	2.67	1.4

										PC	B Conge	ners (μο	g/kg)										
Sample Name	Collection Date	CI2-BZ#5/#8	Cl3-BZ#18	Cl3-BZ#28/#31	Cl4-BZ#44	CI4-BZ#52	Cl4-BZ#43/#49	Cl4-BZ#66	CI5-BZ#101/#84	CI5-BZ#87	CI7-BZ#184	-BZ#1(-BZ#1		CI6-BZ#167/#128	#	CI6-BZ#153	CI7-BZ#170/#190	CI7-BZ#180	CI7-BZ#182/#187	CI8-BZ#195	CI9-BZ#206	CI10-BZ#209
VC-05-08	11/13/2008	39.7	166	529	156	296	209	184	359	127	1.13 U	127	386	10.8	72.5	320	224	29.9	38.3	23.8	2.47	3.49	1.35
VC-07C-08	11/17/2008	576	1490	2150	656	1240	620	285	504	174	1.03 U	143	390	23.2	97.3	400	309	57	90.9	66.9	9.52	16.5	2.77
VC-16-08 (0-1.5')	11/21/2008	17.2	95.9	153	145	340	132	96.9	207	207	1.22 U	163	478	13.8	108	464	300	41.8	50.1	27.2	1.22 U	6.62	3.85
VC-19-08 (0-1')	11/24/2008	205	1430	4830	1340	2530	1860	1880	2520	704	1.22 U	677	2420	77.6	407	1800	1390	196	260	154	15.3	20.9	6.53
VC-23-08 (0-2')	11/24/2008	3.83	27.7	96.4	29.0	71.1	58.2	31.0	49.3	7.96	0.871 U	9.31	49.4	1.73	9.29	37.3	38.4	5.97	6.52	4.20	6.65	0.871 U	0.871 U
VC_24-08 (0-1')	11/24/2008	307	1890	4890	1980	3620	2440	1340	2410	499	16.5 U	452	2230	80	417	1780	1500	210	294	200	18.8	39.2	16.5

п	
	Summation of
	Congeners (mg/kg)
	[NOAA 18]
	7.7
	22.1
	7.0
	57.4
	1.2
	61.3

U = Concentration is below the laboratory's method detection limit. NS = Not sampled.

Table 6: Analytical Data: Post-Dredge Sample Results Phase III Harbor Maintenance Dredge Program New Bedford, Massachusetts

											DOD (//1	\									
_											PCBC	Congene	rs (μg/i	(g)									
Sample Name	Collection Date	CI2-BZ#5/#8	Cl3-BZ#18	Cl3-BZ#28/#31	CI4-BZ#44	CI4-BZ#52	CI4-BZ#43/#49	CI4-BZ#66	CI5-BZ#101/#84	CI5-BZ#87	CI7-BZ#184	CI5-BZ#105	CI5-BZ#118	CI7-BZ#183	CI6-BZ#167/#128	CI6-BZ#138/#163	CI6-BZ#153	CI7-BZ#170/#190	CI7-BZ#180	CI7-BZ#182/#187	CI8-BZ#195	CI9-BZ#206	CI10-BZ#209
POST_012010_G1	1/20/2010	20.4	64.8	204	58.5	129	70.3	25.0	75.7	0.954 U	0.954 U	25.3	76.9	0.954 U	10.4	66.7	30.4	7.11	7.56	4.11	0.954 U	0.954 U	0.954 U
POST_012010_TP2	1/20/2010	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U	1.08 U
POST_012010_UW1	1/20/2010	30.1	192	397	112	218	92.1	42.4	158	2.10 U	2.10 U	70.3	170	9.25	41.0	209	102	45.5	67.9	54.1	2.10 U	2.10 U	2.10 U
POST_012010_PACK1	1/20/2010	0.923 U	1.74	8.85	1.98	5.71	4.04	4.04	4.46	0.923 U	0.923 U	0.923 U	2.96	0.923 U	0.923 U	2.58	2.48	0.923 U	0.923 U	0.923 U	0.923 U	0.923 U	0.923 U
POST_012010_BHB1	1/20/2010	568	1780	4900	1590	2530	1620	466	756	0.988 U	0.988 U	140	631	6.06	39.4	413	356	31.8	30.3	28.7	0.988 U	4.35	1.74
POST_012010_ONWF1	1/20/2010	8.68	47.0	143	49.3	92.8	50.7	17.6	72.8	0.965 U	0.965 U	21.2	77.2	0.965 U	19.7	80.4	37.0	4.90	11.3	6.66	0.965 U	0.965 U	0.965 U
POST_012010_SA1	1/20/2010	0.925 U	0.925 U	18.4	0.925 U	15.2	6.46	2.28	8.49	0.925 U	0.925 U	0.925 U	10.8	0.925 U	0.925 U	10.4	8.73	0.925 U	0.925 U	0.925 U	0.925 U	0.925 U	0.925 U
Steamship Composite 1	8/5/2009	1.49 U	1.49 U	1.49 U	1.49 U	173	84.2	55.5	60.9	59.8	1.49 U	98.1	189	17.3	76.4	313	144	42	81.9	45.7	11.8	7.7	2.31

Summation of Congeners (mg/kg) [NOAA 18]
2.1
0.03
5.0
0.1
37.1
1.8
0.206
3.4

Notes:

U = Concentration is below the laboratory's method detection limit.

NS = Not sampled.

1). When a compound is below the laboratory's method detection limit, 1/2 of the method detection limit is utilized in calcluating the Summation of Congeners.

Date	Time of Up Current	Average of Up Current	Time of Down Current	Average of Down Current	Difference (Down Current - Up Current)	Time of Disposal Location	Average of Disposal Location	Project Title	Project and/or Location
06/13/08	11:15	0.00	10:45	0.00	0.00	-	-	TOP of CAD II	TOP of CAD II
06/14/08	7:20	0.00	8:25	0.23	0.23	•	-	TOP of CAD II	TOP of CAD II
06/14/08	10:15	0.90	10:35	2.00	1.10	-	-	TOP of CAD II	TOP of CAD II
06/14/08	12:40	0.00	12:50	1.00	1.00	-	-	TOP of CAD II	TOP of CAD II
06/14/08	16:30	2.03	16:55	1.17	-0.87		-	TOP of CAD II	TOP of CAD II
06/16/08	16:45	14.63	16:30	0.00	-14.63	17:00	1.29	TOP of CAD II	CAD I (Disposal Only)
06/19/08	8:00	6.07	8:30	2.17	-3.90	-	-	TOP of CAD II	TOP of CAD II
06/19/08	12:00	23.43	12:30	4.23	-19.20	12:05	1.77	TOP of CAD II	CAD I (Disposal Only)
06/24/08	7:50	0.07	8:00	0.20	0.13	-	-	TOP of CAD II	TOP of CAD II
06/24/08	10:00	0.57	10:10	0.23	-0.33	-	-	TOP of CAD II	TOP of CAD II
06/26/08	10:05	1.67	10:10	0.47	-1.20	-	-	TOP of CAD II	TOP of CAD II
06/26/08	11:50	0.67	11:55	3.17	2.50	-	-	TOP of CAD II	TOP of CAD II
06/26/08	18:00	0.00	18:05	6.60	6.60	-	-	TOP of CAD II	TOP of CAD II
06/26/08	16:00	0.00	16:07	5.10	5.10	-	-	TOP of CAD II	TOP of CAD II
06/30/08	7:00	0.00	7:10	0.27	0.27	-	-	TOP of CAD II	TOP of CAD II
06/30/08	16:10	4.33	16:05	0.23	-4.10	-	-	TOP of CAD II	TOP of CAD II
06/30/08	14:25	2.87	14:20	2.73	-0.13	-	-	TOP of CAD II	TOP of CAD II
06/30/08	12:15	6.87	12:20	2.10	-4.77	-	-	TOP of CAD II	TOP of CAD II
06/30/08	10:00	0.63	10:04	1.70	1.07	-	-	TOP of CAD II	TOP of CAD II
07/03/08	15:40	4.17	15:55	6.13	1.97	-	-	TOP of CAD II	TOP of CAD II
07/03/08	13:30	5.50	13:35	4.93	-0.57	-	-	TOP of CAD II	TOP of CAD II
07/03/08	12:20	1.77	12:40	3.60	1.83	12:30	20.97	TOP of CAD II	CAD I (Disposal Only)
07/03/08	10:40	0.00	10:45	4.50	4.50	-	-	TOP of CAD II	TOP of CAD II
07/03/08	8:40	15.03	8:45	6.00	-9.03	-	-	TOP of CAD II	TOP of CAD II
07/03/08	6:46	0.83	6:55	0.97	0.13	6:50	6.77	TOP of CAD II	CAD I (Disposal Only)
07/08/08	12:00	0.30	12:10	1.53	1.23	12:25	7.17	TOP of CAD II	CAD I (Disposal Only)
07/08/08	10:05	14.33	10:23	7.60	-6.73	-	-	TOP of CAD II	TOP of CAD II
07/08/08	7:40	0.93	7:45	0.87	-0.07	-	-	TOP of CAD II	TOP of CAD II
07/08/08	7:05	3.10	7:25	2.10	-1.00	7:32	19.13	TOP of CAD II	CAD I (Disposal Only)
07/31/08	7:10	0.40	7:20	0.20	-0.20	-	-	Steamship	Steamship
07/31/08	9:10	8.86	9:25	0.10	-8.76	-	-	Steamship	Steamship
07/31/08	11:10	1.15	11:17	0.00	-1.15	-	-	Steamship	Steamship
07/31/08	14:18	0.30	14:25	5.26	4.96	-	-	Steamship	Steamship
07/31/08	16:45	2.43	16:35	0.43	-2.00	-	-	Steamship	Steamship
08/04/08	12:00	2.53	12:35	0.53	-2.00	12:25	-	Steamship	CAD I (Disposal Only)
08/05/08	7:40	0.26	7:50	0.00	-0.26	-	-	Steamship	Steamship
08/05/08	9:40	1.33	9:50	1.63	0.30	-	-	Steamship	Steamship

Date	Time of Up Current	Average of Up Current	Time of Down Current	Average of Down Current	Difference (Down Current - Up Current)	Time of Disposal Location	Average of Disposal Location	Project Title	Project and/or Location
08/05/08	12:00	22.40	12:10	2.53	-19.87	-	-	Steamship	Steamship
08/05/08	14:05	1.17	14:20	16.20	15.03	-	•	Steamship	Steamship
08/05/08	16:46	2.53	16:55	0.66	-1.87	16:45	ī	Steamship	CAD I (Disposal Only)
08/07/08	10:00	0.00	10:30	0.00	0.00	1	ī	Steamship	Steamship
08/07/08	11:45	0.03	12:00	0.83	0.80	•	•	Steamship	Steamship
08/07/08	14:20	0.00	14:30	0.93	0.93	-	ī	Steamship	Steamship
08/07/08	15:30	0.00	15:55	6.70	6.70	0.65	-	Steamship	CAD I (Disposal Only)
08/07/08	17:15	0.00	17:25	0.00	0.00	-	-	Steamship	Steamship
08/08/08	7:15	0.00	7:25	0.00	0.00	-	-	Steamship	Steamship
08/08/08	13:30	0.16	13:40	11.07	10.91	-	-	Steamship	Steamship
08/08/08	15:45	0.30	16:01	0.93	0.63		-	Steamship	Steamship
08/11/08	8:50	4.00	8:40	0.00	-4.00	-	-	Steamship	Steamship
08/11/08	16:30	1.23	16:50	2.00	0.77	-	-	Steamship	Steamship
08/12/08	11:20	0.00	11:30	1.40	1.40	-	-	Steamship	Steamship
08/12/08	13:40	0.00	13:30	2.93	2.93	-	-	Steamship	Steamship
08/12/08	15:30	0.00	15:40	4.26	4.26	-	-	Steamship	Steamship
08/18/08	8:30	0.00	8:40	0.96	0.96	-	-	Steamship	Steamship
08/18/08	10:30	8.53	10:44	0.00	-8.53			Steamship	Steamship
08/18/08	12:30	5.93	12:40	2.97	-2.96	-	-	Steamship	Steamship
08/18/08	15:28	5.90	15:32	2.70	-3.20			Steamship	Steamship
08/18/08	17:34	0.83	17:40	2.97	2.14		-	Steamship	Steamship
08/21/08	9:50	1.03	10:15	0.13	-0.90	-	-	Steamship	Steamship
08/21/08	12:45	3.90	12:50	0.00	-3.90	-	-	Steamship	Steamship
08/21/08	14:59	5.53	14:50	0.63	-4.90	-	-	Steamship	Steamship
08/21/08	17:22	5.60	17:26	0.83	-4.77	-	-	Steamship	Steamship
08/21/08	16:04	2.20	17:04	2.86	0.66	16:00	-	Steamship	CAD I (Disposal Only)
08/26/08	7:00	4.10	7:10	0.50	-3.60	-	-	Steamship	Steamship
08/26/08	8:55	0.30	9:02	18.47	18.17	-	-	Steamship	Steamship
08/26/08	11:05	4.97	11:15	5.43	0.46	-	-	Steamship	Steamship
08/26/08	13:00	2.77	13:12	9.73	6.96	-	-	Steamship	Steamship
08/28/08	7:30	3.77	7:40	3.37	-0.40	-	-	Steamship	Steamship
08/28/08	9:30	5.10	9:35	6.30	1.20	-	-	Steamship	Steamship
08/28/08	11:40	2.67	11:35	6.27	3.60	-	-	Steamship	Steamship
08/28/08	15:35	10.10	15:28	6.50	-3.60	-	-	Steamship	Steamship
08/28/08	8:50	24.10	8:57	9.63	-14.47	-	-	Steamship	Steamship
09/03/08	9:00	1.03	9:11	6.57	5.54	-	-	Steamship	Steamship
09/03/08	11:25	1.00	11:32	16.13	15.13	_	_	Steamship	Steamship

Date	Time of Up Current	Average of Up Current	Time of Down Current	Average of Down Current	Difference (Down Current - Up Current)	Time of Disposal Location	Average of Disposal Location	Project Title	Project and/or Location
09/03/08	13:52	1.47	13:44	1.27	-0.20	-	-	Steamship	Steamship
08/27/08	13:47	2.83	13:40	8.57	5.74	N/A* ²	N/A* ²	BOC II	BOC II
08/27/08	15:42	2.10	15:35	4.23	2.13	N/A* ²	N/A* ²	BOC II	BOC II
08/27/08	17:30	2.23	17:42	3.16	0.93	N/A* ²	N/A* ²	BOC II	BOC II
08/28/08	8:00	1.90	8:10	1.53	-0.37	N/A* ²	N/A* ²	BOC II	BOC II
08/28/08	10:30	4.23	10:24	3.17	-1.06	N/A*²	N/A* ²	BOC II	BOC II
08/28/08	12:22	3.73	12:27	2.23	-1.50	N/A* ²	N/A* ²	BOC II	BOC II
08/28/08	14:45	9.00	14:50	1.83	-7.17	N/A*2	N/A* ²	BOC II	BOC II
08/28/08	16:40	1.60	16:50	4.13	2.53	N/A* ²	N/A* ²	BOC II	BOC II
09/03/08	8:10	3.33	8:05	19.23	15.90	N/A*2	N/A* ²	BOC II	BOC II
09/03/08	10:54	4.10	11:02	1.93	-2.17	N/A* ²	N/A* ²	BOC II	BOC II
09/03/08	13:05	1.63	13:17	9.13	7.50	N/A* ²	N/A* ² N/A* ²	BOC II	BOC II
09/11/08	8:22	1.63	8:49	4.67	3.04	N/A* ²	N/A* ²	BOC II	BOC II BOC II
09/11/08 09/11/08	10:40 13:00	1.67 1.30	10:32 13:05	1.63 1.73	-0.04 0.43	N/A* ²	N/A*2	BOC II	BOC II
09/11/08	16:42	2.33	17:00	3.80	1.47	N/A* ²	N/A* ²	BOC II	BOC II
09/11/08	9:50	1.50	10:00	2.37	0.87	N/A* ²	N/A* ²	BOC II	BOC II
09/16/08	11:50	3.50	11:56	1.67	-1.83	N/A* ²	N/A* ²	BOC II	BOC II
09/16/08	14:41	10.20	14:30	3.60	-6.60	N/A* ²	N/A* ²	BOC II	BOC II
09/16/08	16:20	5.33	16:16	4.73	-0.60	N/A*2	N/A* ²	BOC II	BOC II
09/18/08	11:40	1.13	11:50	2.10	0.97	N/A* ²	N/A* ²	BOC II	BOC II
09/18/08	15:36	3.20	15:45	3.57	0.37	N/A* ²	N/A* ²	BOC II	BOC II
03/23/09	* 1	1.45	* 1	1.85	0.40	-	N/A* ³	PH III PART B	NBRF
03/25/09	11:25	1.10	12:25	3.59	2.49	12:15	N/A* ³	PH III PART B	NBRF (Disposal Only)
03/27/09	12:20	0.40	12:30	0.30	-0.10	12:14	N/A* ³	PH III PART B	NBRF (Disposal Only)
04/05/09	11:40	1.55	13:00	1.73	0.18	11:55	N/A* ³	PH III PART B	NBRF (Disposal Only)
04/08/09	13:20	2.94	13:35	2.43	-0.51	13:25	N/A* ³	PH III PART B	NBRF (Disposal Only)
04/10/09	14:15	1.10	14:50	1.33	0.23	14:25	N/A* ³	PH III PART B	NBRF (Disposal Only)
04/13/09	14:20	1.04	14:45	1.75	0.71	-		PH III PART B	NBRF
04/14/09	17:00	3.63	17:30	2.39	-1.24	17:15	N/A* ³	PH III PART B	NBRF (Disposal Only)
04/21/09	10:14	2.21	11:00	5.05	2.84	10:50	N/A* ³	PH III PART A	Gifford St.
04/22/09	8:15	1.70	8:28	4.07	2.37	8:20	N/A* ³	PH III PART A	Gifford St.
04/22/09	13:50	1.60	14:10	2.17	0.57	-	N/A* ³	PH III PART A	Gifford St.

Date	Time of Up Current	Average of Up Current	Time of Down Current	Average of Down Current	Difference (Down Current - Up Current)	Time of Disposal Location	Average of Disposal Location	Project Title	Project and/or Location
04/23/09	* 1	1.83	* 1	2.00	0.17	7:35	N/A* ³	PH III PART A	Gifford St., South Terminal
04/24/09	8:35	1.43	9:35	1.73	0.30	9:25	N/A* ³	PH III PART A	CAD II (Disposal only)
04/26/09	12:25	0.85	13:05	1.37	0.52	12:45	N/A* ³	PH III PART A	Gifford St., South Terminal
05/04/09	11:30	3.02	* 1	1.22	-1.80	11:45	N/A* ³	PH III PART A	CAD II (Disposal only)
05/06/09	11:45	1.70	12:00	1.80	0.10	11:50	N/A* ³	PH III PART A	CAD II (Disposal only)
05/06/09	16:45	2.50	16:58	14.30	11.80	-	N/A* ³	PH III PART A	Gifford St.
05/07/09	15:00	13.00	15:20	2.73	-10.27	-	N/A* ³	PH III PART A	South Terminal
05/13/09	13:30	1.37	13:50	1.47	0.10	13:36	N/A* ³	PH III PART A	CAD II (Disposal only)
05/14/09	8:20	0.60	8:45	2.27	1.67	8:35	N/A* ³	PH III PART A	CAD II (Disposal only)
05/16/09	12:30	2.09	13:25	0.61	-1.48	-	N/A* ³	PH III PART A	Union Wharf
05/20/09	14:00	21.60	14:20	3.19	-18.41	-	N/A* ³	PH III PART A	Gifford St.
05/22/09	8:00	0.81	8:15	0.29	-0.52	8:05	N/A* ³	PH III PART A	CAD II (Disposal only)
05/28/09	10:13	1.09	10:25	1.85	0.76	-	N/A* ³	PH III PART A	Linberg Marine
05/28/09	14:00	1.06	14:45	1.71	0.65	14:20	N/A* ³	PH III PART A	CAD II (Disposal only)
06/04/09	14:35	1.60	14:52	3.53	1.93	-	N/A* ³	PH III PART A	Linberg Marine
06/04/09	16:20	1.90	16:55	3.13	1.23	16:35	N/A* ³	PH III PART A	CAD II (Disposal only)
06/06/09	14:05	1.47	14:30	3.76	2.29	-	N/A* ³	PH III PART A	Linberg Marine
06/14/09	8:40	3.07	9:15	3.17	0.10	8:50	N/A* ³	PH III PART A	CAD II (Disposal only)
06/17/09	15:25	2.99	15:40	4.05	1.06	-	N/A* ³	PH III PART A	WA-S
06/18/09	8:30	0.87	9:00	1.30	0.43	8:45	N/A* ³	PH III PART A	CAD II (Disposal only)
06/22/09	11:15	1.66	11:35	1.04	-0.62	-	N/A* ³	PH III PART A	ONWF
06/24/09	10:10	4.54	10:25	0.46	-4.08	-	N/A* ³	PH III PART A	Gifford St.
07/01/09	14:40	2.88	15:17	3.83	0.95	-	N/A* ³	PH III PART A	Gifford St.
07/02/09	16:45	2.28	17:15	5.23	2.95	-	N/A* ³	PH III PART A	Gifford St.
07/08/09	11:55	1.93	12:15	1.83	-0.10	-	N/A* ³	PH III PART A	NL
07/08/09	14:33	3.60	14:40	18.00	14.40	14:35	N/A* ³	PH III PART A	CAD II (Disposal only)
07/10/09	9:30	0.73	10:15	1.05	0.32	-	N/A* ³	PH III PART A	Packer Marine

TABLE 7 - NEW BEDFORD HARBOR DREDGE - PHASE III

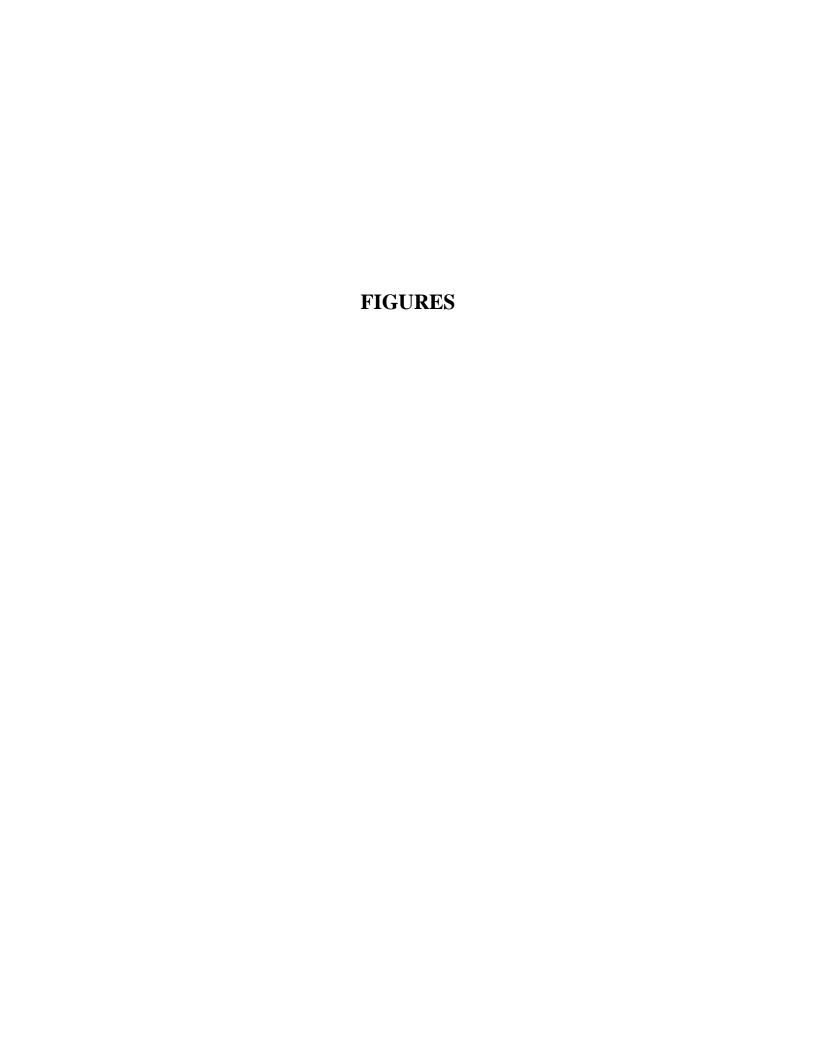
Water Quality Monitoring - Turbidity Measurements

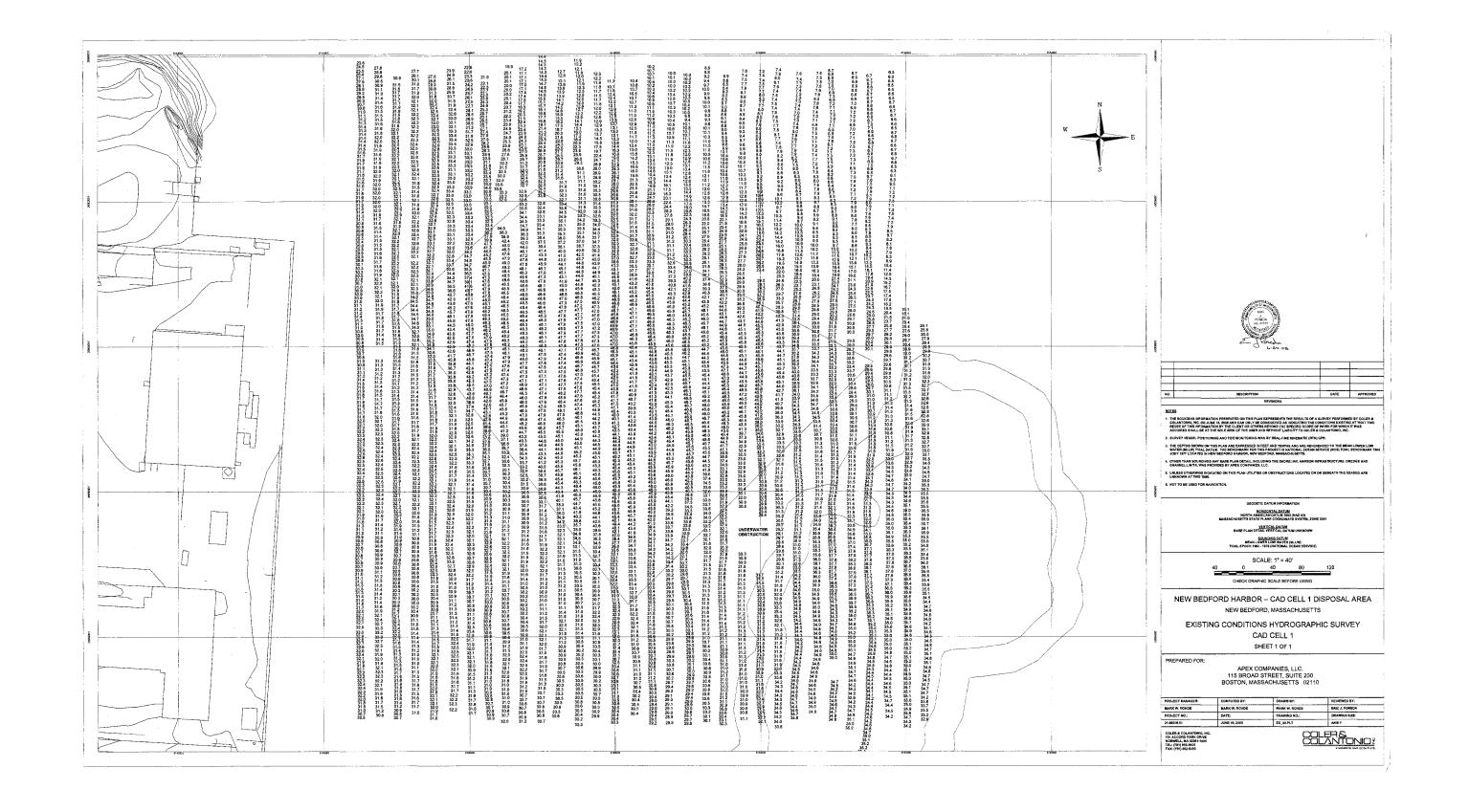
June 12, 2008 -- August 25, 2009

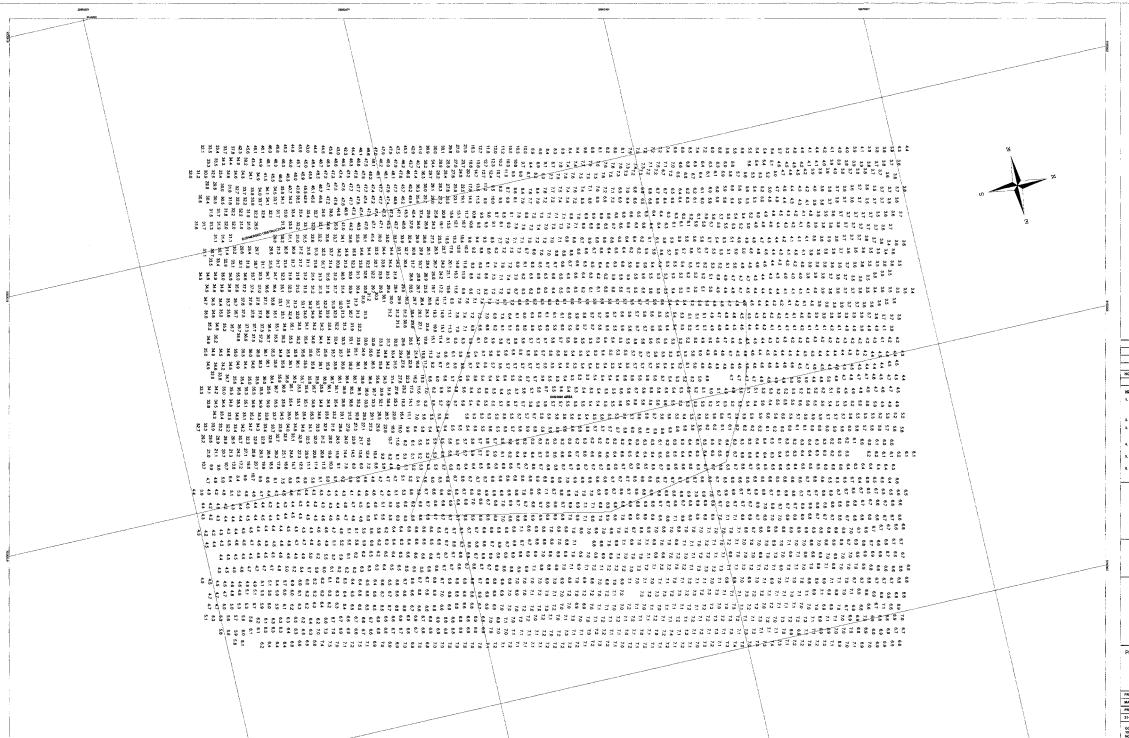
Date	Time of Up Current	Average of Up Current	Time of Down Current	Average of Down Current	Difference (Down Current - Up Current)	Time of Disposal Location	Average of Disposal Location	Project Title	Project and/or Location
07/15/09	13:58	1.97	14:05	5.57	3.60	-	N/A* ³	PH III PART A	Gifford St.
07/17/09	13:48	2.13	14:05	1.59	-0.54		N/A* ³	PH III PART A	WA-S
07/22/09	13:35	2.59	14:00	3.63	1.04	1	N/A* ³	PH III PART A	South Terminal
07/23/09	15:30	4.22	15:40	2.70	-1.52	-	N/A* ³	PH III PART A	South Terminal
07/28/09	8:55	4.62	9:10	4.35	-0.27		N/A* ³	PH III PART A	South Terminal
08/12/09	13:40	2.90	14:10	4.51	1.61	1	N/A* ³	PH III PART A	Gifford St.
08/13/09	17:48	1.90	18:05	2.60	0.70	-	N/A* ³	PH III PART A	South Terminal
08/17/09	10:10	0.77	10:25	2.07	1.30	-	N/A* ³	PH III PART A	Packer Marine
08/20/09	14:25	2.28	14:45	2.79	0.51	-	N/A* ³	PH III PART A	Packer Marine
08/25/09	16:46	5.62	17:00	3.23	-2.39	-	N/A* ³	PH III PART A	South Terminal

Comments:

- Denotes a non-disposal event
- *1 Time field left blank on original field sheet/log-book
- *2 Bottom of CAD disposal events were off shore and water quality montitoring was not completed
- *3 PH III Part A and Part B Dredging were completed with a silt curtain around CAD II therefore no disposal location readings were taken (up-current and down-current measurements were taken outside the silt curtain.









	REVISIONS		
NO.	DESCRIPTION	DATE	APPROVED
		1	

VERTICAL DATUM BASE PLAN DETAIL WERTICAL DAT

SCUNDING DATUM MEAN JOWER LOW WATER (MILLW) TIGAL EPOCH 1980 - 1978 (NATIONAL COPAN SE

NEW BEDFORD HARBOR - CAD CELL 2

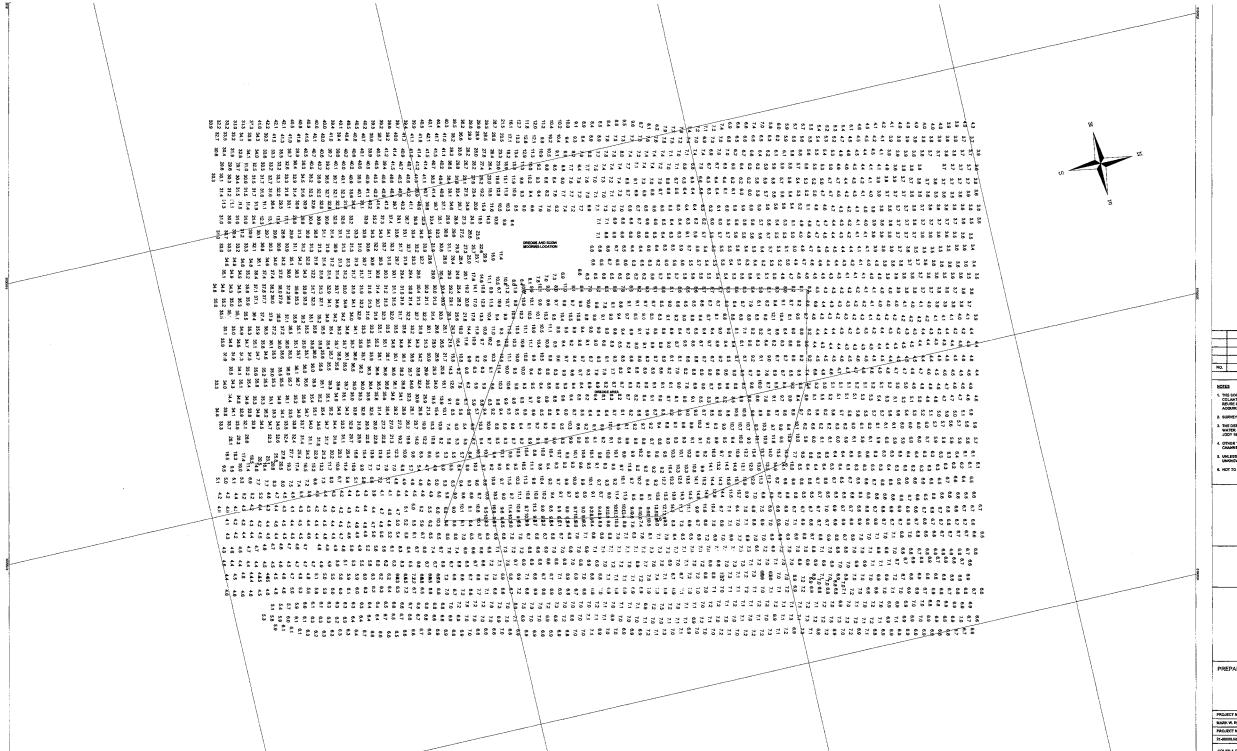
NEW BEDFORD, MASSACHUSETTS

PRE-DREDGE HYDROGRAPHIC SURVEY TOP OF CAD CELL

APEX COMPANIES, LLC. 115 BROAD STREET, SUITE 200 BOSTON, MASSACHUSETTS 02110

PROJECT MANAGER:	COMPUTED BY:	DRAWN BY:	REVIEWED BY:
MARK W. ROHDE	MARK W. ROHDE	MARK W. ROHDE	ERIC J. POREDA
PROJECT NO.:	DATE:	DRAWING NO.:	DRAWING SIZE:
21-00008-00	JUNE 5, 2008	PR_60.PL7	ANBI F

COLER & COLANTONIO, INC 101 ACCORD PARK DRIVE NORWELL, MA 02061-1885 TEL: (781) 962-9400 FAY: 7741 962-9400





NO.	DESCRIPTION	DATE	APPROVED
1			
			

- 5. UNLESS OTHERWISE INDICATED

HORIZONTAL DATUM AMERICAN DATUM 1983 (NA YERTICAL DATUM

CHECK GRAPHIC SCALE BEFORE USIN

NEW BEDFORD, MASSACHUSETTS

NEW BEDFORD HARBOR - CAD CELL 2

POST-DREDGE HYDROGRAPHIC SURVEY

TOP OF CAD CELL

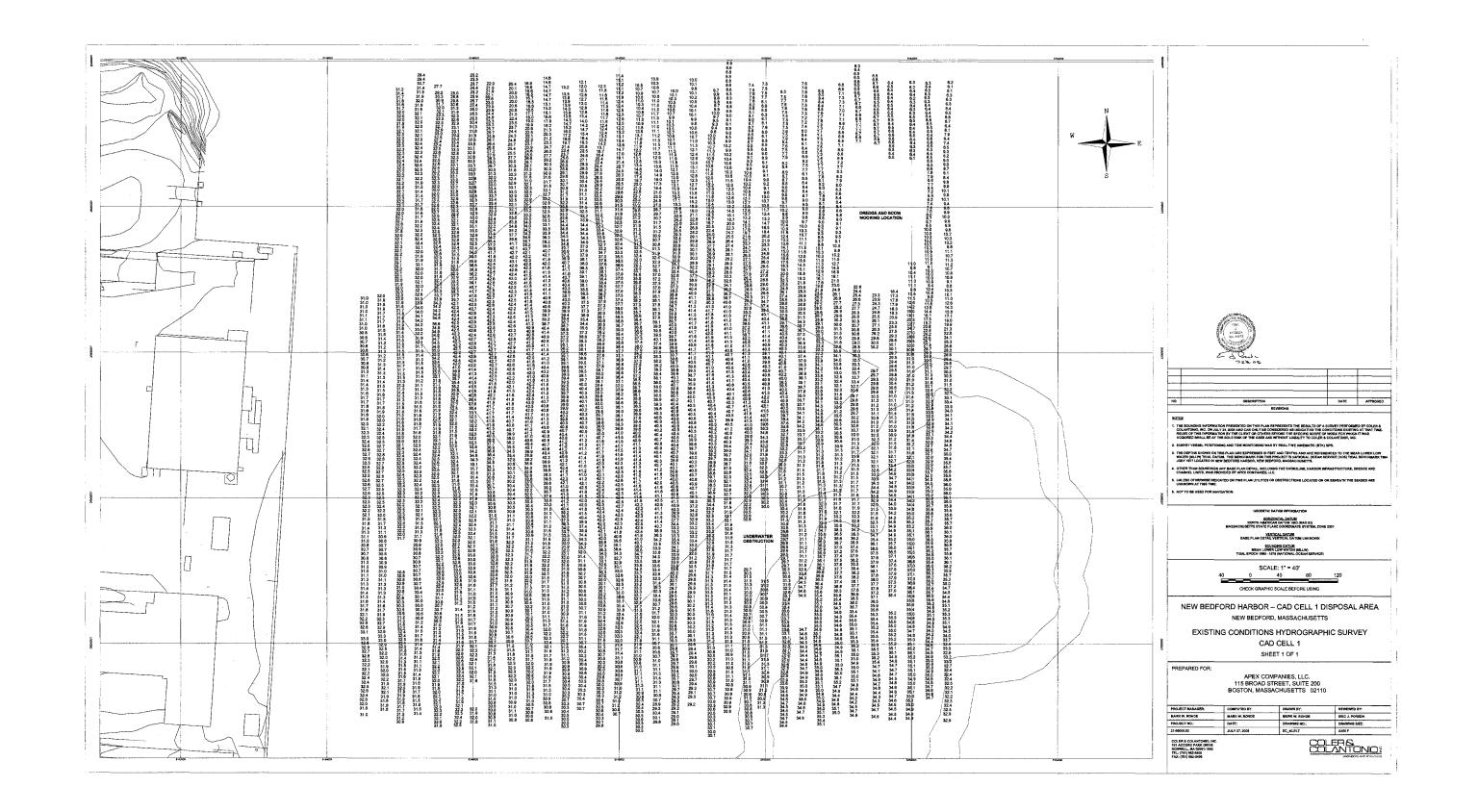
SHEET 1 OF 1

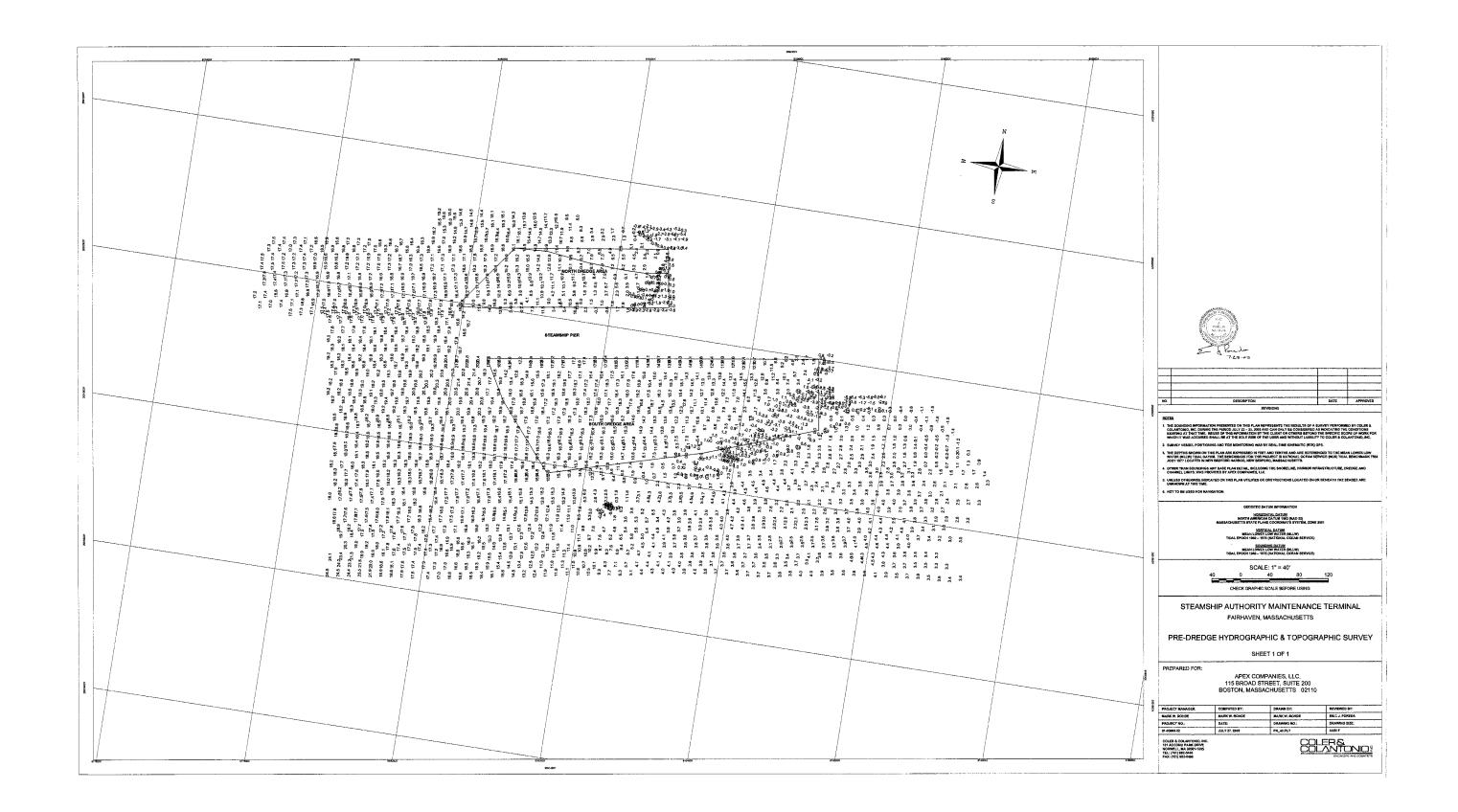
PREPARED FOR

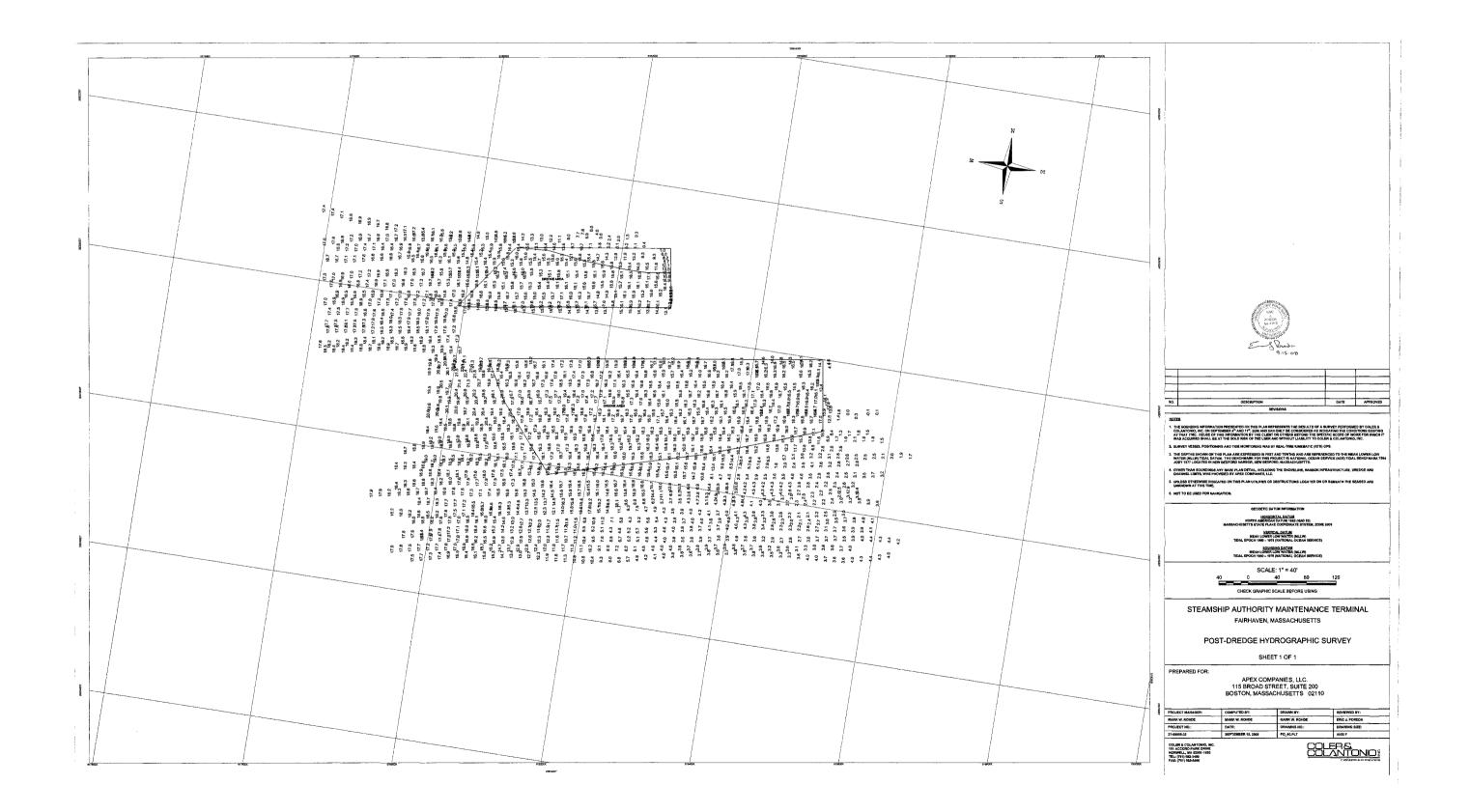
APEX COMPANIES, LLC. 115 BROAD STREET, SUITE 200

	PROJECT MANAGER:	COMPUTED BY:	DRAWN BY:	REVIEWED BY:
	MARK W. ROHDE	MARK W. ROHDE	MARK W. ROHDE	ERIC J. POREDA
	PROJECT NO.:	DATE:	DRAWING NO.:	DRAWING SIZE:
ľ	21-00008,60	JULY 21, 2008	PO_60.PLT	ANSI F









40 39 50 55 50 50 55 50 50 55 50 50 55 50 50 55 50 5 3.77



REVISIONS				
NO.	DESCRIPTION	DATE	APPROVED	
	······································			

NOTES

- COLONIONIO, INC. ON JULY 17, 2005 AND CAN ONLY BE CONDIDENED AS MOLICATING THE CONDITIONS SERVING AT THAT TIME REUSE OF THIS INFORMATION BY THE CLIENT OR OTHERS BEYOND THE SPECIFIC SCOPE OF WORK FOR WHICH IT WAS ACQUIRED SHALL BE AT THE SOLE RIBX OF THE USER AND WITHOUT LIABILITY TO COLER & COLANTONIO, INC.
- 2. SURVEY VESSEL POSITIONING AND TIDE MONITORING WAS BY REAL-TIME KINEMATIC (RTK)
- JODY 1977 LOCATED IN NEW BEOFORD HARBOR, NEW BEOFORD, MASSACHUSETTS.
- 5. UNLESS OTHERWISE INDICATED ON THIS PLAN UTILITIES OR OBSTRUCTIONS LOCATED ON OR BENEATH THE SEABER UNKNOWN AT THIS TIME.
- 5. NOT TO BE USED FOR NAVIGATION.

GEODETIC DATUM INFORMATION

<u>HORIZONTAL DATUM</u> NORTH AMERICAN DATUM 1983 (NAD 83) BBACHUSETTS STATE PLANE COORDINATE SYSTEM, ZO

<u>VERTICAL DATUM</u>
BASE PLAN DETAIL VERTICAL DATUM UNKNOWN
SOUNDING DATUM

SQUINDING DATUM MEAN LOWER LOW WATER (MILLW) YIDAL EPOCH 1989 - 1978 (NATIONAL OCEAN SERVI

0 60 120

CHECK GRAPHIC SCALE BEFORE USING

NEW BEDFORD HARBOR - CAD CELL 2

NEW BEDFORD, MASSACHUSETTS

PRE-DREDGE HYDROGRAPHIC SURVEY
BOTTOM OF CAD CELL

SHEET 1 OF 1

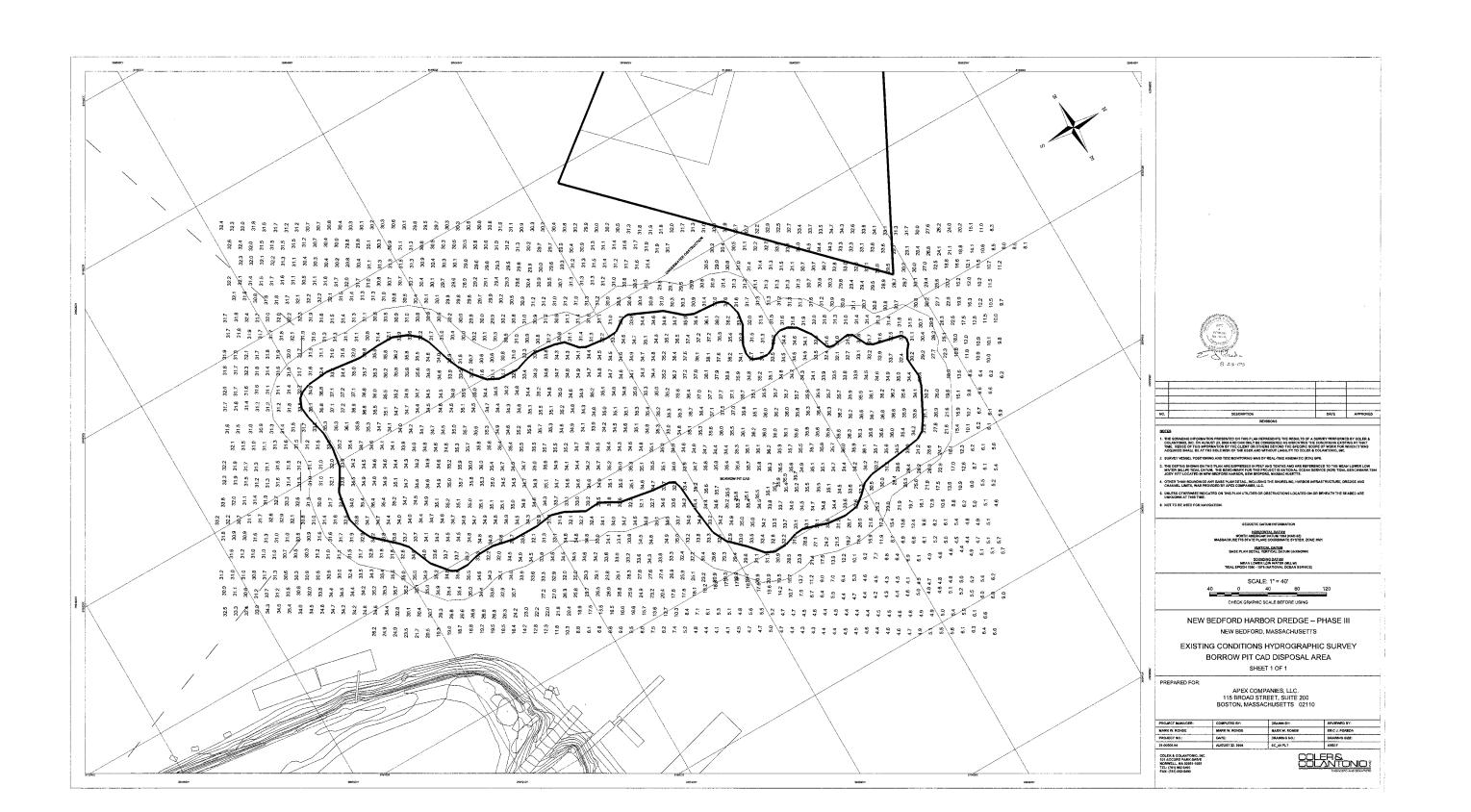
PREPARED

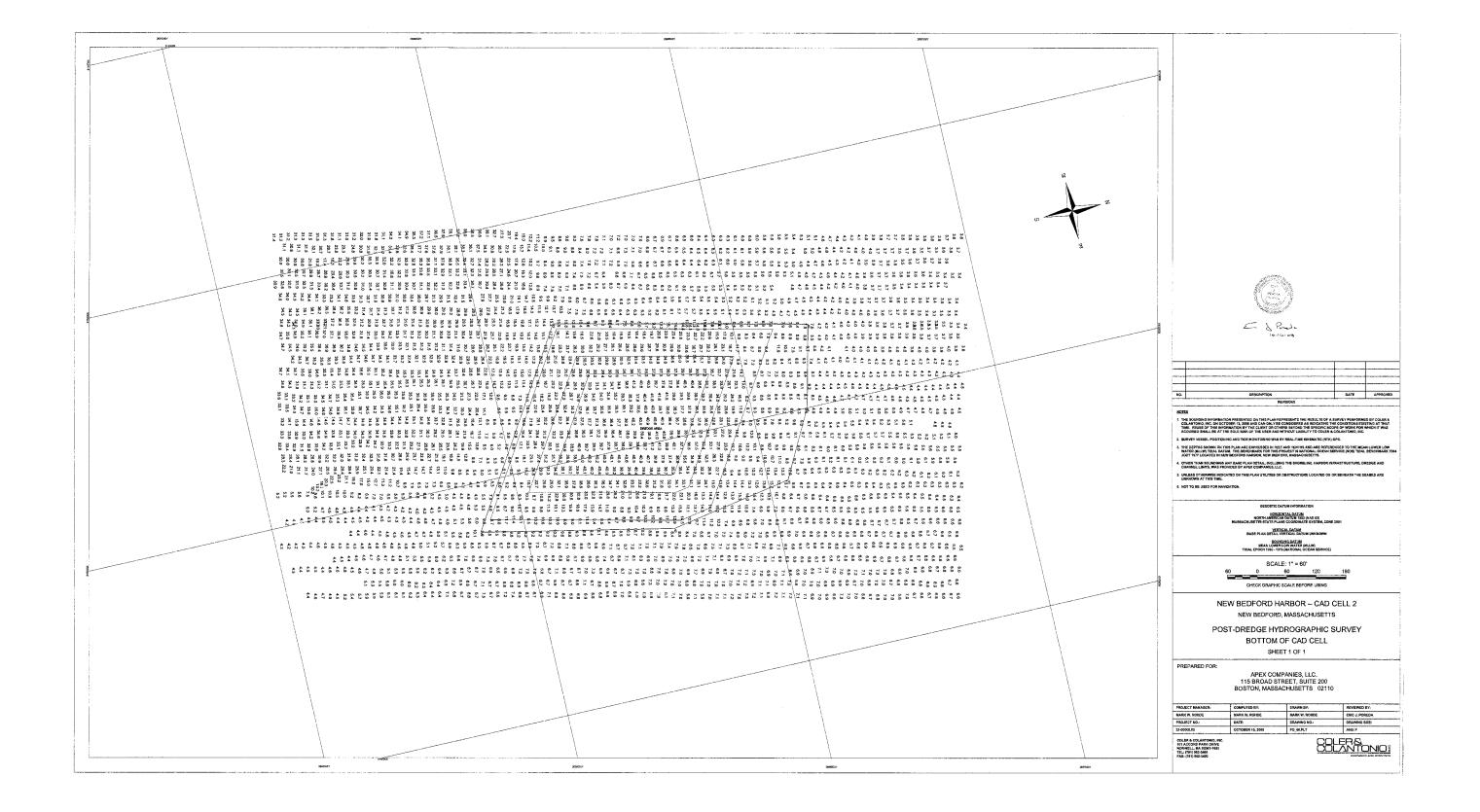
APEX COMPANIES, LLC 115 BROAD STREET, SUITE 200 BOSTON, MASSACHUSETTS 02110

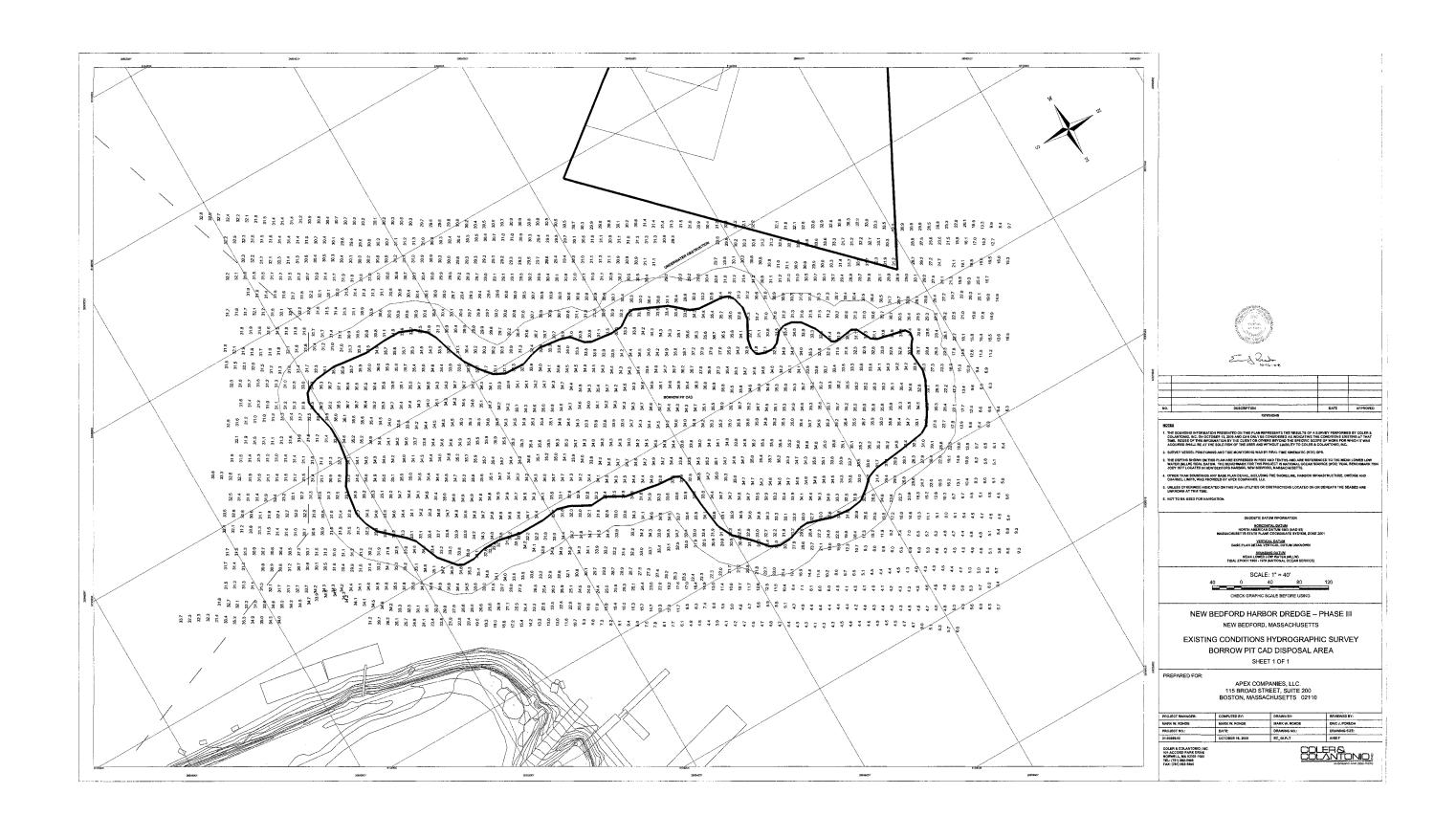
PROJECT MANAGER:	COMPUTED BY:	DRAWN BY:	REVIEWED BY:		
MARK W. ROHDE	MARK W. ROHDE	MARK W. ROHDE	ERIC J. POREDA		
PROJECT NO.:	DATE:	DRAWING NO.:	DRAWING SIZE:		
21-00008.00	SEPTEMBER 2, 2001	PO_60.PLT	ANS/ F		

DLER & COLANYONIO, INC. 11 ACCORD PARK DRIVE DRWELL, MA 02161-1685 (L: (781) 982-5400







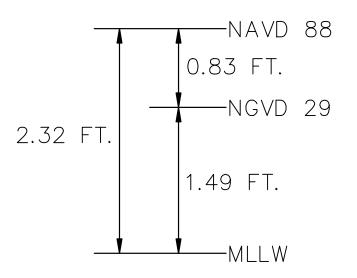




- 1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.
- 2. HYDROGRAPHIC SURVEY IS A COMPILATION OF SURVEYS PREFORMED BETWEEN 9-11-06 AND 11-6-06.
- 3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE TIDAL BENCHMARK BM7584 J 1977 SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF U.S.HIGHWAY 6 ON THE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (1 M) WEST OF A FIRE HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY 6. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC. FEBRUARY 2002 AS MILLW 1.52 FT = NGVD29 0.0 FT. TO OBTAIN VALUES IN NGVD29, SUBTRACT 1.52 FEET FROM THE INDICATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.
- 4. BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- 5. HORIZONTAL AND VERTICAL CONTROL HAVE BEEN PROVIDED BY THE OWNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF CONTROL DATA.
- 6. THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEYS AND AT THE SOUNDING POINTS NOTED ON THE DRAWING.
- 7. EXISTING UTILITIES WITHIN THE SITE HAVE NOT BEEN IDENTIFIED. IDENTIFICATION AND PROTECTION OF EXISTING UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 8. LIMITS OF FEDERAL NAVIGATIONAL CHANNEL OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS.

9. NO SPUDDING SHALL OCCUR IN ANY AREA DESIGNATED NO SPUD ZONE.

GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR





115 BROAD STREET SUITE 200 BOSTON MA 02110 (617) 728-0070

REVISIONS

NO.	DATE	DESCRIPTION
1.	9/05/08	PRELIM. DREDGE LAYOUT
2.	11/14/08	BID SET
3.	1/16/09	RE-BID

THESE DRAWINGS PREPARED BY APEX FOR THIS PROJECT ARE INSTRUMENTS OF APEX'S SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT, AND APEX SHALL BE DEEMED THE AUTHOR OF THE DRAWING AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS WITH RESPECT THERETO, INCLUDING COPYRIGHT. THE DOCUMENTS SHALL NOT BE USED ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO APEX.

PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART B

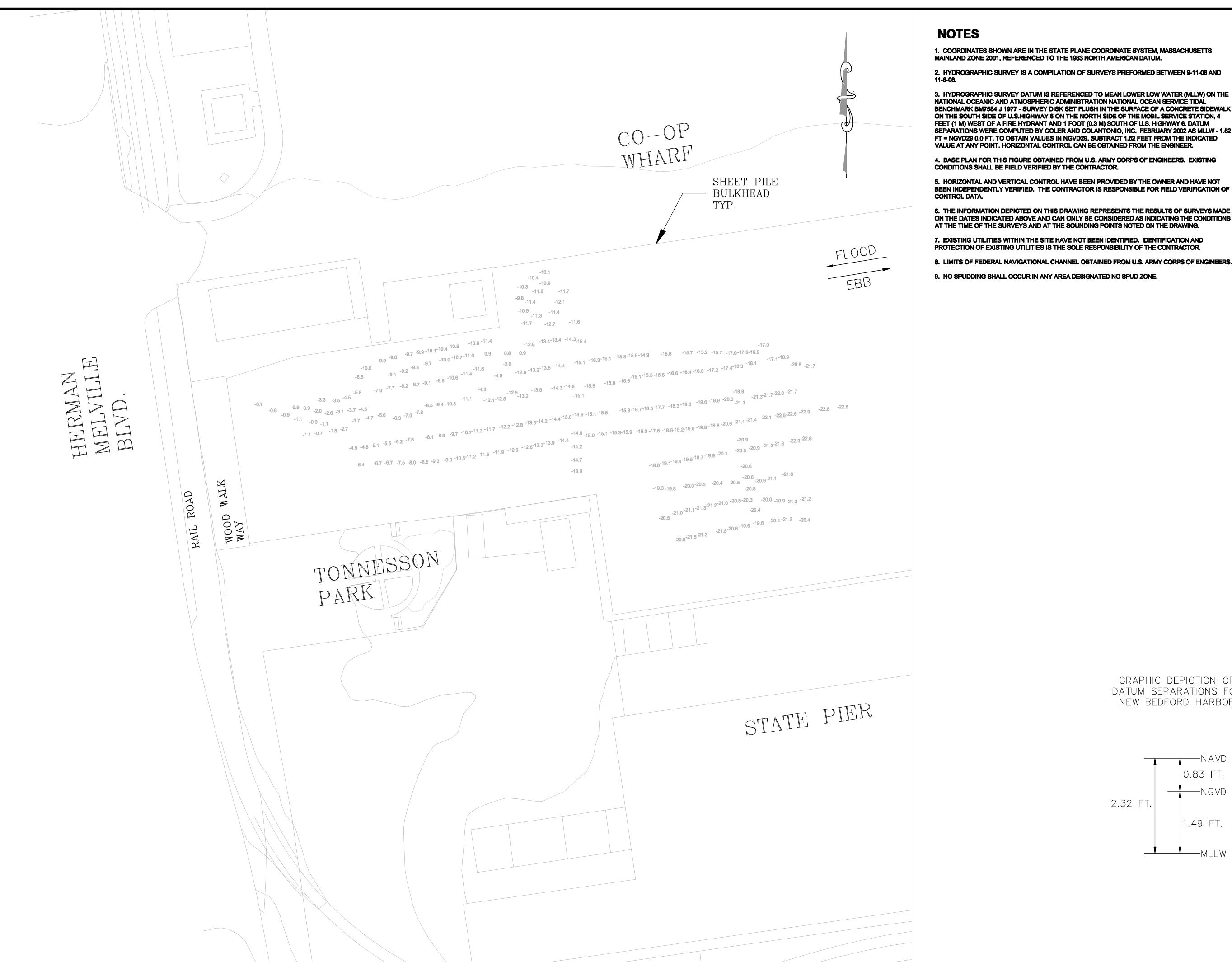
PREPARED FOR:

THE NEW BEDFORD
HARBOR DEVELOPMENT
COMMISSION
AND THE
TOWN OF FAIRHAVEN,
MASSACHUSETTS

DRAWING TITLE:

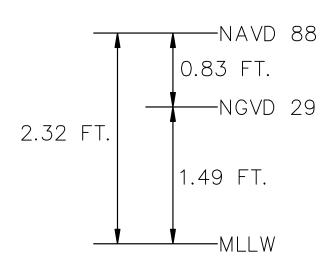
NEW BEDFORD
ROWING FACILITY
DREDGE AREA EXISTING CONDITIONS
NOT

FOR CONSTRUCTION



- 1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.
- 2. HYDROGRAPHIC SURVEY IS A COMPILATION OF SURVEYS PREFORMED BETWEEN 9-11-06 AND
- 3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE TIDAL BENCHMARK BM7584 J 1977 - SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF U.S.HIGHWAY 6 ON THE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (1 M) WEST OF A FIRE HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY 6. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC. FEBRUARY 2002 AS MLLW - 1.52 FT = NGVD29 0.0 FT. TO OBTAIN VALUES IN NGVD29, SUBTRACT 1.52 FEET FROM THE INDICATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.
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- 5. HORIZONTAL AND VERTICAL CONTROL HAVE BEEN PROVIDED BY THE OWNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF CONTROL DATA.
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- 7. EXISTING UTILITIES WITHIN THE SITE HAVE NOT BEEN IDENTIFIED. IDENTIFICATION AND PROTECTION OF EXISTING UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 9. NO SPUDDING SHALL OCCUR IN ANY AREA DESIGNATED NO SPUD ZONE.

GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR





115 BROAD STREET **SUITE 200 BOSTON MA 02110** (617) 728-0070

	<u>REVISIONS</u>							
NO.	NO. DATE DESCRIPTION							
1.	9/05/08	PRELIM. DREDGE LAYOUT						
2.	2. 11/14/08 BID SET							

THESE DRAWINGS PREPARED BY APEX FOR THIS PROJECT ARE INSTRUMENTS OF APEX'S SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT, AND APEX SHALL BE DEEMEND THE AUTHOR OF THE DRAWING AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS WITH RESPECT THERETO, INCLUDING COPYRIGHT. THE DOCUMENTS SHALL NOT BE USED ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO APEX.





PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A

PREPARED FOR:

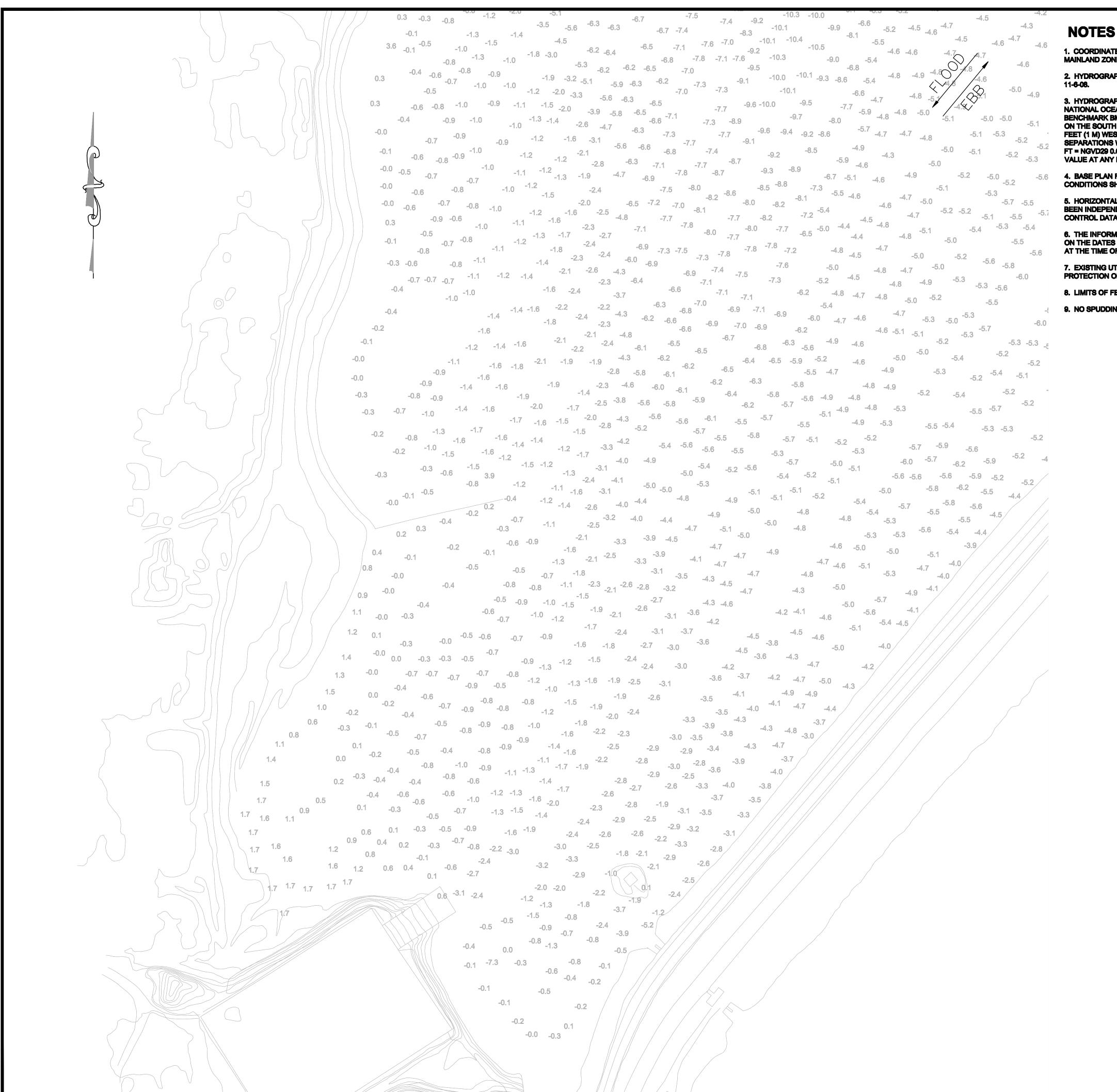
THE NEW BEDFORD HARBOR DEVELOPMENT **COMMISSION AND THE** TOWN OF FAIRHAVEN, **MASSACHUSETTS**

DRAWING TITLE:

TONNESSON PARK DREDGE AREAS-EXISTING CONDITIONS

NOT FOR CONSTRUCTION

Scale	: 1"=:	20'			
0	10	20		40	50 FEET
Date	9/5/	08		Drawin	g No.
Proj. N	Proj. Mgr. JAB]	
Design	CV	V,M			
Check	CN	1			1
Drawn	CV	VM		L	—
Job. N	o. 66	315			
Last R	ev. 10	/30/08			



1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.

2. HYDROGRAPHIC SURVEY IS A COMPILATION OF SURVEYS PREFORMED BETWEEN 9-11-06 AND

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7. EXISTING UTILITIES WITHIN THE SITE HAVE NOT BEEN IDENTIFIED. IDENTIFICATION AND PROTECTION OF EXISTING UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

8. LIMITS OF FEDERAL NAVIGATIONAL CHANNEL OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS.

9. NO SPUDDING SHALL OCCUR IN ANY AREA DESIGNATED NO SPUD ZONE.

STATUTORY AND OTHER RESERVED RIGHTS WITH RESPECT THERETO, INCLUDING COPYRIGHT. THE DOCUMENTS SHALL NOT BE USED ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FO COMPLETION OF THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO APEX.

115 BROAD STREET

BOSTON MA 02110 (617) 728-0070

1. 9/05/08 PRELIM. DREDGE LAYOUT

THESE DRAWINGS PREPARED BY APEX FOR THIS PROJECT ARE INSTRUMENTS OF APEX'S SERVICE FOR

USE SOLELY WITH RESPECT TO THIS PROJECT, AND APEX SHALL BE DEEMEND THE AUTHOR OF THE

DRAWING AND SHALL RETAIN ALL COMMON LAW,

SUITE 200

NO. DATE

2. 11/14/08 BID SET





PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A

PREPARED FOR:

GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR

NEW BEDFORD HARBOR

2.32 FT

-NAVD 88

0.83 FT.

──NGVD 29

1.49 FT.

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION **AND THE** TOWN OF FAIRHAVEN,

DRAWING TITLE:

GIFFORD STREET BOAT RAMP DREDGE AREA -**EXISTING CONDITIONS**

MASSACHUSETTS

NOT FOR CONSTRUCTION

Scale: 1"=60'	
0 30 60	120 150 FEE
Date 9/05/08	Drawing No.
Proj. Mgr. JAB	
Design CWM	
Check CM	
Drawn CWM	<u> </u>
Job. No. 6615	

Last Rev. 10/30/08



-0.6 -0.8 -1.0 -0.9 -1.1 -1.5 -2.0 -3.9 -5.8 -6.5 -7.1

NOTES

1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.

2. HYDROGRAPHIC SURVEY IS A COMPILATION OF SURVEYS PREFORMED BETWEEN 9-11-06 AND 11-6-08.

3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE TIDAL BENCHMARK BM7584 J 1977 - SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF U.S.HIGHWAY 6 ON THE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (1 M) WEST OF A FIRE HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY 6. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC. FEBRUARY 2002 AS MILLW - 1.52 FT = NGVD29 0.0 FT. TO OBTAIN VALUES IN NGVD29, SUBTRACT 1.52 FEET FROM THE INDICATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.

4. BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

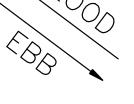
5. HORIZONTAL AND VERTICAL CONTROL HAVE BEEN PROVIDED BY THE OWNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF

6. THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEYS AND AT THE SOUNDING POINTS NOTED ON THE DRAWING.

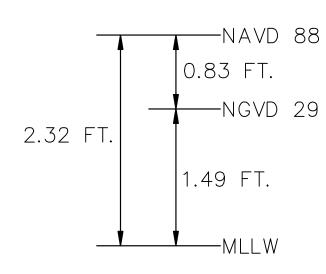
7. EXISTING UTILITIES WITHIN THE SITE HAVE NOT BEEN IDENTIFIED. IDENTIFICATION AND PROTECTION OF EXISTING UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

8. LIMITS OF FEDERAL NAVIGATIONAL CHANNEL OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS.

9. NO SPUDDING SHALL OCCUR IN ANY AREA DESIGNATED NO SPUD ZONE.



GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR





115 BROAD STREET SUITE 200 BOSTON MA 02110 (617) 728-0070

REVISIONS				
NO.	DATE	DESCRIPTION		
1.	9/05/08	PRELIM. DREDGE LAYOUT		
2.	11/14/08	BID SET		

THESE DRAWINGS PREPARED BY APEX FOR THIS PROJECT ARE INSTRUMENTS OF APEX'S SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT, AND APEX SHALL BE DEEMEND THE AUTHOR OF THE DRAWING AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS WITH RESPECT THERETO, INCLUDING COPYRIGHT. THE DOCUMENTS SHALL NOT BE USED ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO APEX.





PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A

PREPARED FOR:

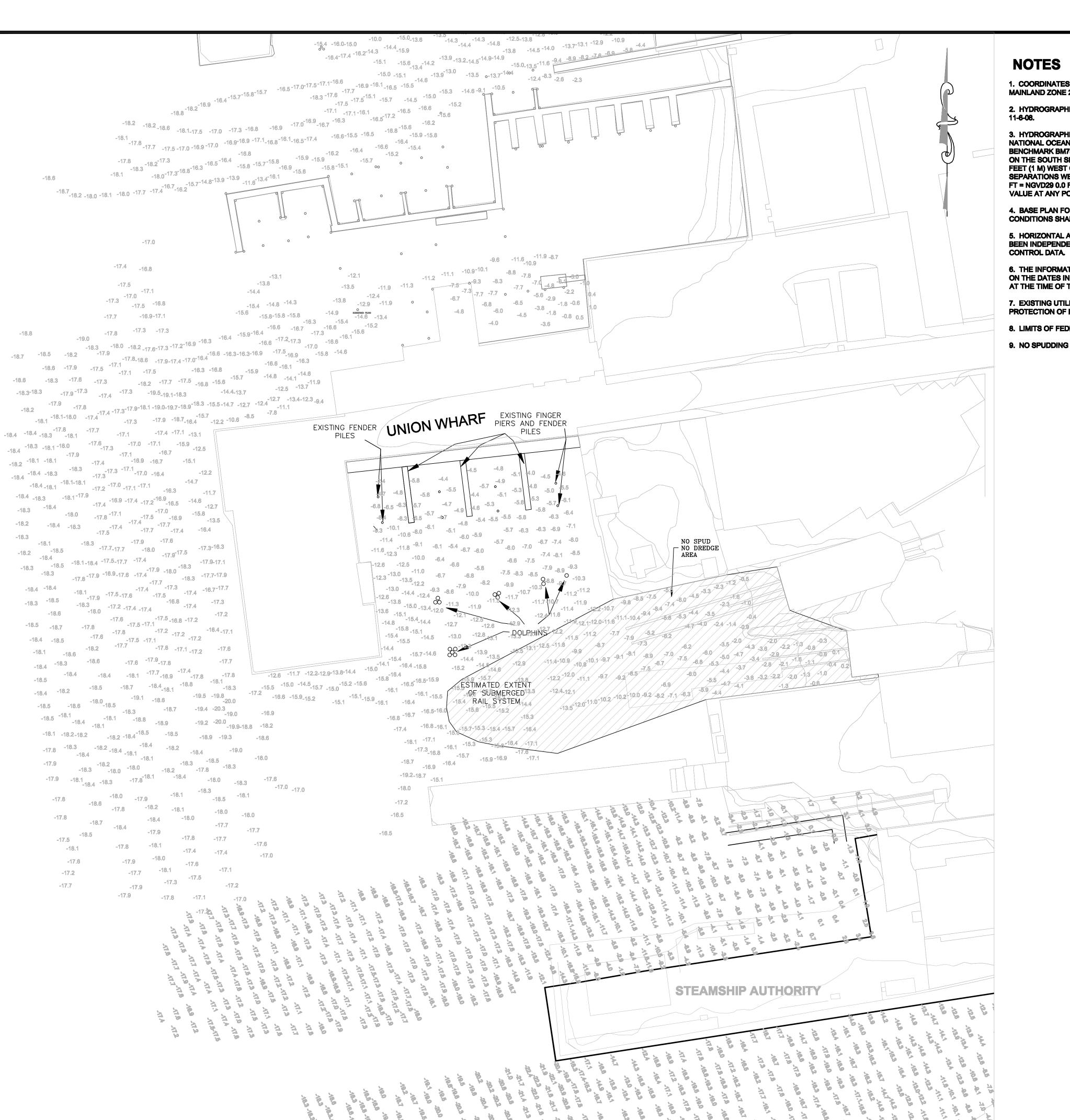
THE NEW BEDFORD
HARBOR DEVELOPMENT
COMMISSION
AND THE
TOWN OF FAIRHAVEN,
MASSACHUSETTS

DRAWING TITLE:

SOUTH TERMINAL DREDGE AREAS -EXISTING CONDITIONS

NOT FOR CONSTRUCTION

Scale: 1"=80'						
0 40 80	160 200					
Date 9/05/08	Drawing No.					
Proj. Mgr. JAB						
Design CWM						
Check CM						
Drawn CWM] L-3					
Job. No. 6615						
Last Rev. 10/30/08						



1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.

2. HYDROGRAPHIC SURVEY IS A COMPILATION OF SURVEYS PREFORMED BETWEEN 9-11-06 AND

3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE TIDAL BENCHMARK BM7584 J 1977 - SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF U.S.HIGHWAY 6 ON THE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (1 M) WEST OF A FIRE HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY 6. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC. FEBRUARY 2002 AS MILLW - 1.52 FT = NGVD29 0.0 FT. TO OBTAIN VALUES IN NGVD29, SUBTRACT 1.52 FEET FROM THE INDICATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.

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9. NO SPUDDING SHALL OCCUR IN ANY AREA DESIGNATED NO SPUD ZONE.

115 BROAD STREET SUITE 200 BOSTON MA 02110 (617) 728-0070

REVISIONS					
10.	DATE	DESCRIPTION			
	9/05/08	PRELIM. DREDGE LAYOUT			
	11/14/08	BID SET			

THESE DRAWINGS PREPARED BY APEX FOR THIS PROJECT ARE INSTRUMENTS OF APEX'S SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT. AND APEX SHALL BE DEEMEND THE AUTHOR OF THE DRAWING AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS WITH RESPECT THERETO, INCLUDING COPYRIGHT. THE DOCUMENTS SHALL NOT BE USED ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO APEX.





PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III PART A

PREPARED FOR:

GRAPHIC DEPICTION OF

DATUM SEPARATIONS FOR

NEW BEDFORD HARBOR

2.32 FT

-NAVD 88

0.83 FT.

NGVD 29

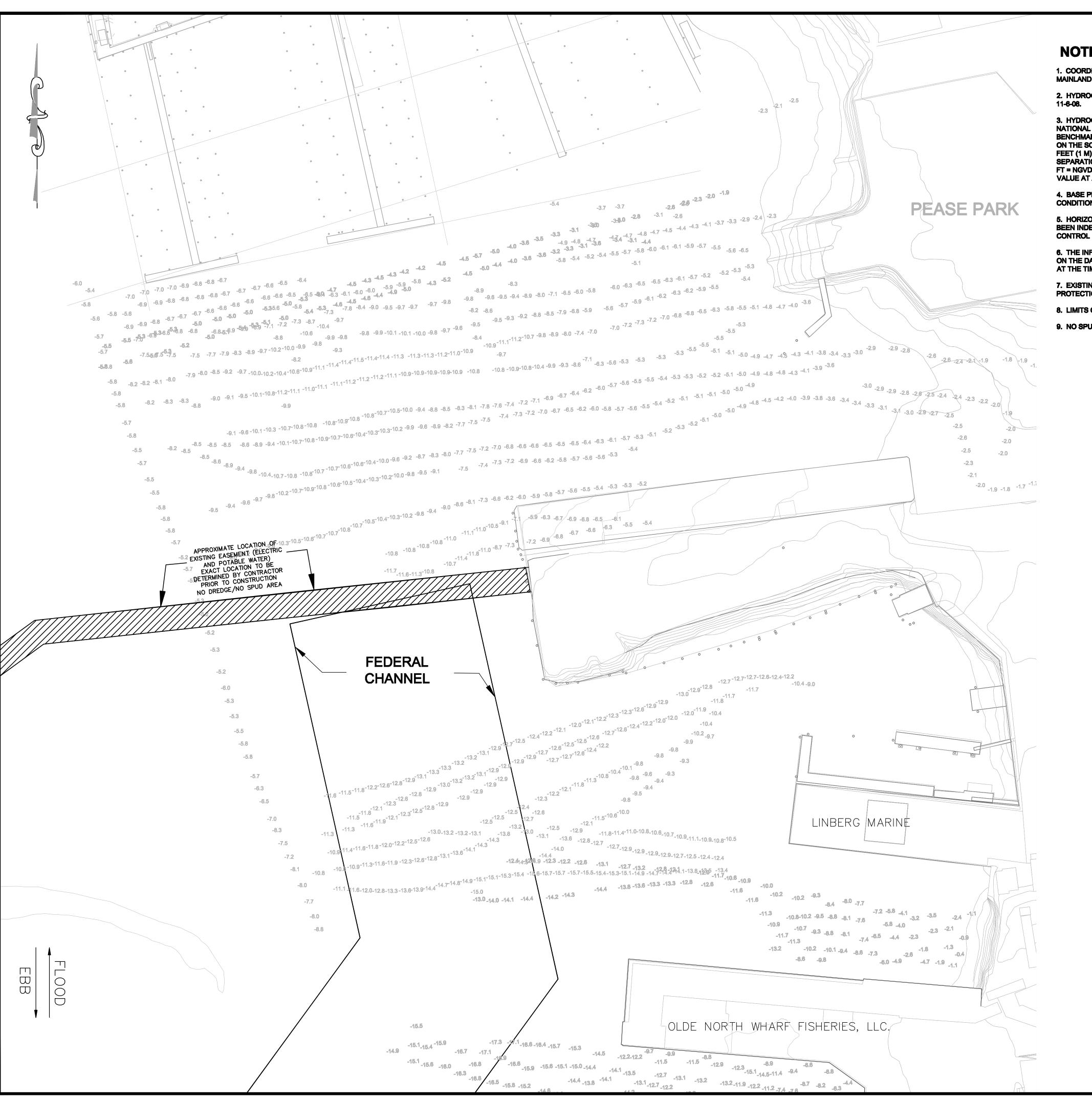
1.49 FT.

THE NEW BEDFORD HARBOR DEVELOPMENT **COMMISSION AND THE TOWN OF FAIRHAVEN, MASSACHUSETTS**

DRAWING TITLE:

WARREN ALEXANDER SOUTH AND UNION WHARF DREDGE AREAS-**EXISTING CONDITIONS** NOT FOR CONSTRUCTION

Scale: 1"	'=40'		
0 20) 40	80	100 FEET
Date 9/	5/08	Drawin	a No.
Proj. Mgr.	JAB		J
Design	CWM		
Check	CM]	1
Drawn	CWM] 노-	- 4
Job. No.	6615		
Last Rev.	10/30/08		



1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.

2. HYDROGRAPHIC SURVEY IS A COMPILATION OF SURVEYS PREFORMED BETWEEN 9-11-06 AND

3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE TIDAL BENCHMARK BM7584 J 1977 - SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF U.S.HIGHWAY 6 ON THE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (1 M) WEST OF A FIRE HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY 6. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC. FEBRUARY 2002 AS MLLW - 1.52 FT = NGVD29 0.0 FT. TO OBTAIN VALUES IN NGVD29, SUBTRACT 1.52 FEET FROM THE INDICATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.

4. BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

5. HORIZONTAL AND VERTICAL CONTROL HAVE BEEN PROVIDED BY THE OWNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF

6. THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEYS AND AT THE SOUNDING POINTS NOTED ON THE DRAWING.

7. EXISTING UTILITIES WITHIN THE SITE HAVE NOT BEEN IDENTIFIED. IDENTIFICATION AND PROTECTION OF EXISTING UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

8. LIMITS OF FEDERAL NAVIGATIONAL CHANNEL OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS.

9. NO SPUDDING SHALL OCCUR IN ANY AREA DESIGNATED NO SPUD ZONE.



115 BROAD STREET SUITE 200 BOSTON MA 02110 (617) 728-0070

R	E١	/	SI	0	N	S

NO.	DATE	DESCRIPTION
1.	9/05/08	PRELIM. DREDGE LAYOUT
2.	11/14/08	BID SET

THESE DRAWINGS PREPARED BY APEX FOR THIS PROJECT ARE INSTRUMENTS OF APEX'S SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT. AND APEX SHALL BE DEEMEND THE AUTHOR OF THE DRAWING AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS WITH RESPECT THERETO, INCLUDING COPYRIGHT, THE DOCUMENTS SHALL NOT BE USED ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO APEX.





PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A

PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION **AND THE** TOWN OF FAIRHAVEN,

MASSACHUSETTS

DRAWING TITLE:

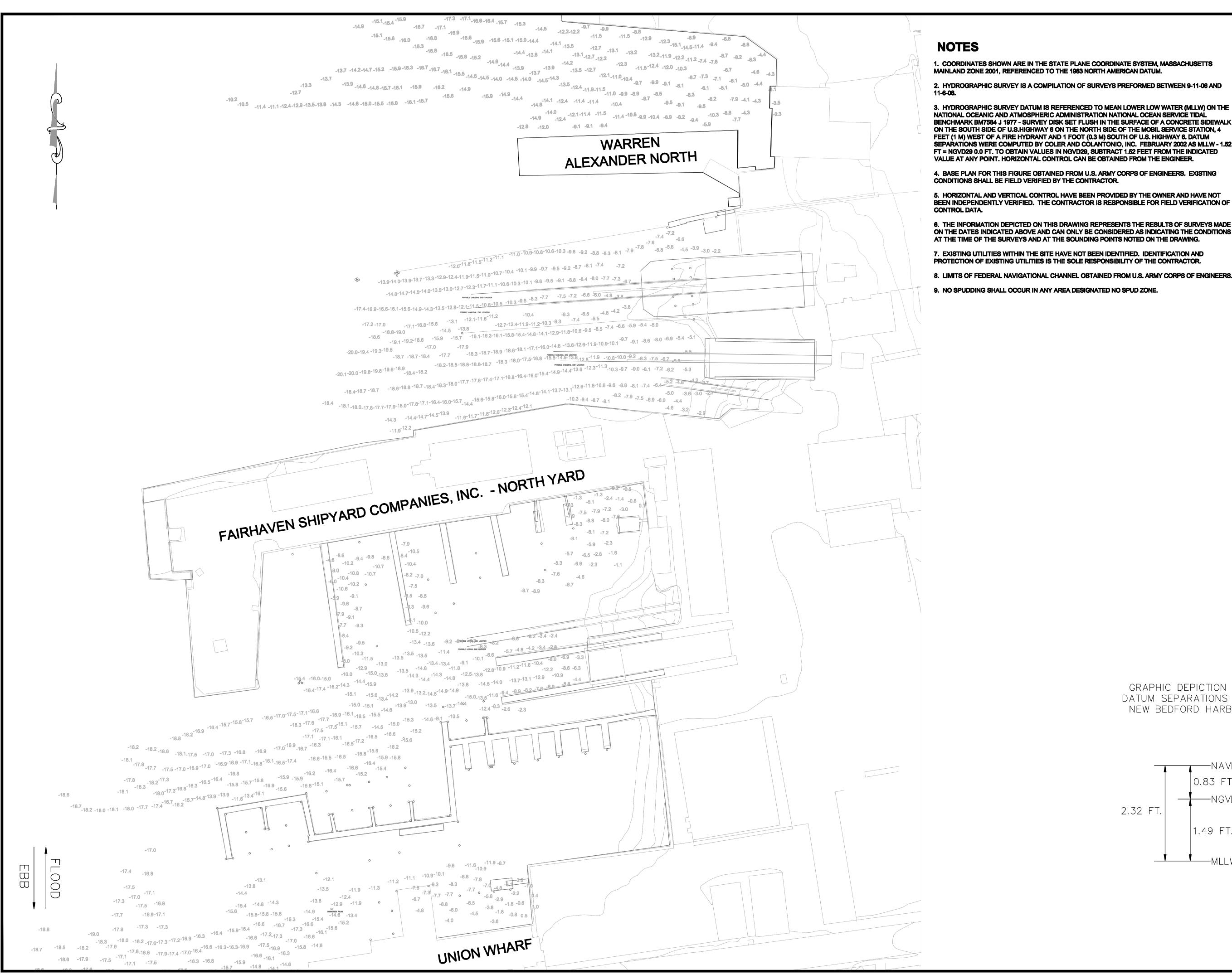
LINBERG DREDGE AREAS-EXISTING CONDITIONS

NOT FOR CONSTRUCTION

Scale: 1"=40'	
0 20 40	80 100 FEET
Date 9/5/08	Drawing No.
Proj. Mgr. JAB]
Design CWM	
Check CM	
Drawn CWM] L—5
Job. No. 6615	
Last Rev. 10/30/08	

GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR

-NAVD 88 0.83 FT. ──NGVD 29 2.32 FT 1.49 FT.



1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.

2. HYDROGRAPHIC SURVEY IS A COMPILATION OF SURVEYS PREFORMED BETWEEN 9-11-06 AND

3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE TIDAL BENCHMARK BM7584 J 1977 - SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF U.S.HIGHWAY 6 ON THE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (1 M) WEST OF A FIRE HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY 6. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC. FEBRUARY 2002 AS MLLW - 1.52 FT = NGVD29 0.0 FT. TO OBTAIN VALUES IN NGVD29, SUBTRACT 1.52 FEET FROM THE INDICATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.

4. BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

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6. THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEYS AND AT THE SOUNDING POINTS NOTED ON THE DRAWING.

7. EXISTING UTILITIES WITHIN THE SITE HAVE NOT BEEN IDENTIFIED. IDENTIFICATION AND PROTECTION OF EXISTING UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

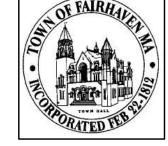
9. NO SPUDDING SHALL OCCUR IN ANY AREA DESIGNATED NO SPUD ZONE.



115 BROAD STREET SUITE 200 BOSTON MA 02110 (617) 728-0070

<u>REVISIONS</u>						
10.	O. DATE DESCRIPTION					
	9/05/08	PRELIM. DREDGE LAYOUT				
) 10	11/14/08	BID SET				

THESE DRAWINGS PREPARED BY APEX FOR THIS PROJECT ARE INSTRUMENTS OF APEX'S SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT. AND APEX SHALL BE DEEMEND THE AUTHOR OF THE DRAWING AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS WITH RESPECT THERETO, INCLUDING COPYRIGHT, THE DOCUMENTS SHALL NOT BE USED ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO APEX.





PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A

PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION **AND THE TOWN OF FAIRHAVEN,**

MASSACHUSETTS

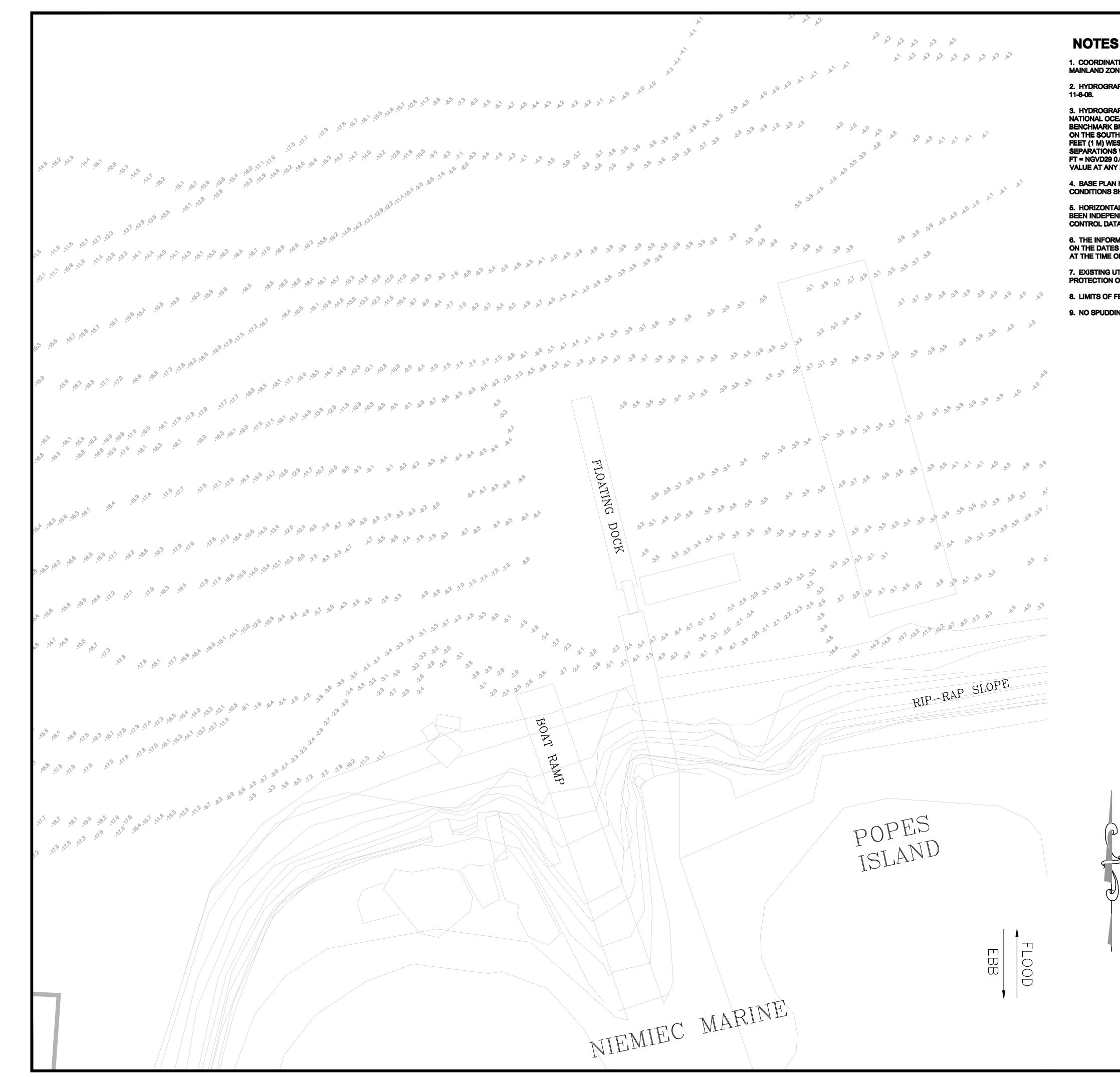
DRAWING TITLE:

WARREN ALEXANDER NORTH AND FAIRHAVEN SHIPYARD DREDGE AREAS - EXISTING CONDITIONS NOT FOR CONSTRUCTION

Scale: 1"=40'	
0 20 40	80 100 FEET
Date 9/5/08	Drawing No.
Proj. Mgr. JAB]
Design CWM	
Check CM	
Drawn CWM	[E-6
Job. No. 6615	
Last Rev. 10/30/08	

GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR

-NAVD 88 0.83 FT. ──NGVD 29 2.32 FT 1.49 FT.



- 1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001. REFERENCED TO THE 1983 NORTH AMERICAN DATUM.
- 2. HYDROGRAPHIC SURVEY IS A COMPILATION OF SURVEYS PREFORMED BETWEEN 9-11-06 AND 11-6-08.
- 3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE TIDAL BENCHMARK BM7584 J 1977 SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF U.S.HIGHWAY 6 ON THE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (1 M) WEST OF A FIRE HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY 6. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC. FEBRUARY 2002 AS MILLW 1.52 FT = NGVD29 0.0 FT. TO OBTAIN VALUES IN NGVD29, SUBTRACT 1.52 FEET FROM THE INDICATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.
- 4. BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- 5. HORIZONTAL AND VERTICAL CONTROL HAVE BEEN PROVIDED BY THE OWNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF CONTROL DATA.
- 6. THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEYS AND AT THE SOUNDING POINTS NOTED ON THE DRAWING.
- 7. EXISTING UTILITIES WITHIN THE SITE HAVE NOT BEEN IDENTIFIED. IDENTIFICATION AND PROTECTION OF EXISTING UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 8. LIMITS OF FEDERAL NAVIGATIONAL CHANNEL OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS.

GRAPHIC DEPICTION OF

DATUM SEPARATIONS FOR NEW BEDFORD HARBOR

2.32 FT

-NAVD 88

----NGVD 29

0.83 FT.

1.49 FT.

9. NO SPUDDING SHALL OCCUR IN ANY AREA DESIGNATED NO SPUD ZONE.



115 BROAD STREET SUITE 200 BOSTON MA 02110 (617) 728-0070

<u>REVISIONS</u>			
NO.	DATE	DESCRIPTION	
1.	9/05/08	PRELIM. DREDGE LAYOUT	
2.	11/14/08	BID SET	

PROJECT ARE INSTRUMENTS OF APEX'S SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT, AND APEX SHALL BE DEEMEND THE AUTHOR OF THE DRAWING AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS WITH RESPECT THERETO, INCLUDING COPYRIGHT. THE DOCUMENTS SHALL NOT BE USED ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO APEX.

THESE DRAWINGS PREPARED BY APEX FOR THIS





PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A

PREPARED FOR:

THE NEW BEDFORD
HARBOR DEVELOPMENT
COMMISSION
AND THE
TOWN OF FAIRHAVEN,

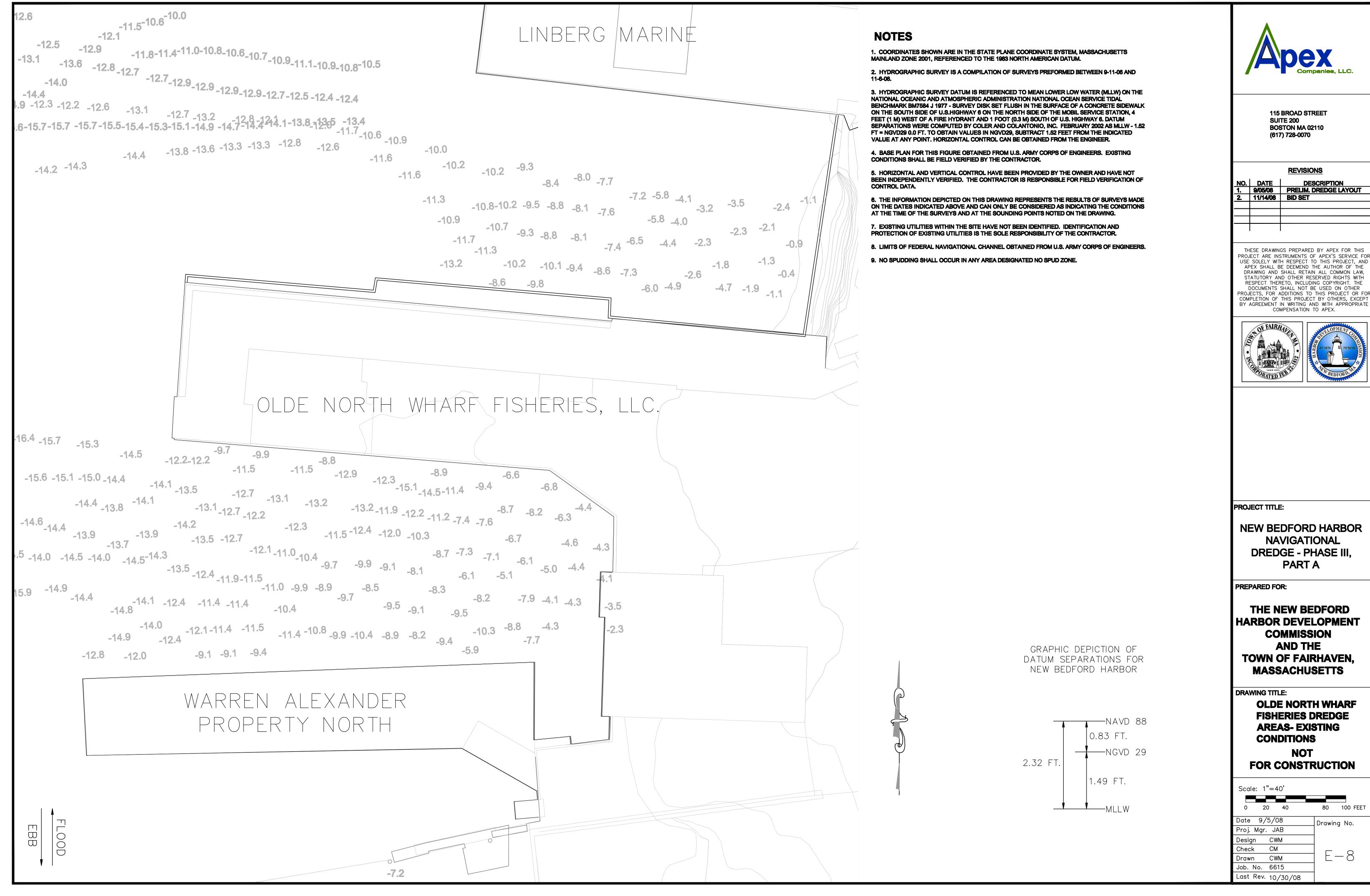
MASSACHUSETTS

DRAWING TITLE:

NIEMIEC MARINE DREDGE AREA- EXISTING CONDITIONS

NOT FOR CONSTRUCTION

Scale: 1"=20'				
0 10 20	40 50 FEET			
Date 9/5/08	Drawing No.			
Proj. Mgr. JAB				
Design CW,M				
Check CM				
Drawn CWM				
Job. No. 6615				
Last Rev. 10/30/08				



<u>REVISIONS</u>			
NO.	DATE	DESCRIPTION	
1.	9/05/08	PRELIM. DREDGE LAYOUT	
2.	11/14/08	BID SET	





1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.

2. HYDROGRAPHIC SURVEY IS A COMPILATION OF SURVEYS PREFORMED BETWEEN 9-11-06 AND

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4. BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

5. HORIZONTAL AND VERTICAL CONTROL HAVE BEEN PROVIDED BY THE OWNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF CONTROL DATA

6. THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEYS AND AT THE SOUNDING POINTS NOTED ON THE DRAWING.

PROTECTION OF EXISTING UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

8. LIMITS OF FEDERAL NAVIGATIONAL CHANNEL OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS.

GRAPHIC DEPICTION OF

DATUM SEPARATIONS FOR

NEW BEDFORD HARBOR

2.32 FT

-NAVD 88

0.83 FT.

NGVD 29

1.49 FT.

9. NO SPUDDING SHALL OCCUR IN ANY AREA DESIGNATED NO SPUD ZONE.

7. EXISTING UTILITIES WITHIN THE SITE HAVE NOT BEEN IDENTIFIED. IDENTIFICATION AND

Apex Companies, LLC.

115 BROAD STREET SUITE 200 BOSTON MA 02110 (617) 728-0070

<u>REVISIONS</u>				
NO.	DATE	DESCRIPTION		
1.	9/05/08	PRELIM. DREDGE LAYOUT		
2.	11/14/08	BID SET		

THESE DRAWINGS PREPARED BY APEX FOR THIS
PROJECT ARE INSTRUMENTS OF APEX'S SERVICE FOR
USE SOLELY WITH RESPECT TO THIS PROJECT, AND
APEX SHALL BE DEEMEND THE AUTHOR OF THE
DRAWING AND SHALL RETAIN ALL COMMON LAW,
STATUTORY AND OTHER RESERVED RIGHTS WITH
RESPECT THERETO, INCLUDING COPYRIGHT. THE
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PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR
COMPLETION OF THIS PROJECT BY OTHERS, EXCEPT
BY AGREEMENT IN WRITING AND WITH APPROPRIATE
COMPENSATION TO APEX.





PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A

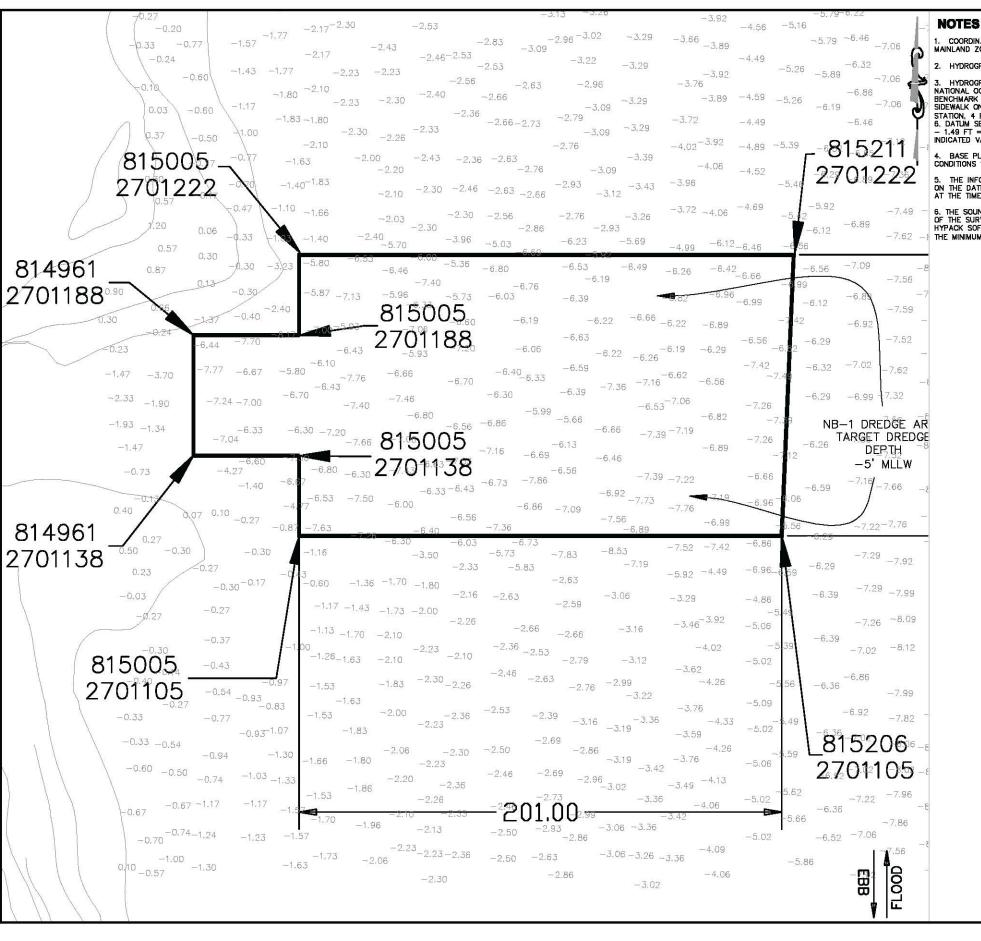
PREPARED FOR:

THE NEW BEDFORD
HARBOR DEVELOPMENT
COMMISSION
AND THE
TOWN OF FAIRHAVEN,
MASSACHUSETTS

DRAWING TITLE:

PACKER FUEL &
MAR-LEES
DREDGE AREASEXISTING CONDITIONS
NOT
FOR CONSTRUCTION

Scale: 1"=40'	
0 20 40	80 100 FEET
Date 9/5/08	Drawing No.
Proj. Mgr. JAB	
Design CWM	
Check CM	
Drawn CWM	l F-8
Job. No. 6615	
Last Rev. 10/30/08	



1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.

2. HYDROGRAPHIC SURVEY WAS PERFORMED BY APEX COMPANIES LLC ON 4/29/09.

3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MILW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE TIDAL BENCHMARK BM7584 J 1977 - SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF U.S.HIGHWAY 6 ON THE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (1 M) WEST OF A FIRE HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY
6. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC. JUNE 2008, AS MLLW
- 1.49 FT = NGVD29 0.0 FT. TO OBTAIN VALUES IN NGVD29, SUBTRACT 1.49 FEET FROM THE INDICATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.

BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

5. The information depicted on this drawing represents the results of surveys made on the dates indicated above and can only be considered as indicating the conditions at the time of the surveys and at the sounding points noted on the drawing.

6. THE SOUNDINGS SHOWN HEREON ARE A REDUCED SELECTION OF DATA COLLECTED AT THE TIME OF THE SURVEY. THE DATA REDUCTION WAS PERFORMED USING THE SORT UTILITY WITHIN THE HYPACK SOFTWARE PACKAGE. THIS SORTING UTILITY BIASES THE SOUNDING SELECTION TOWARDS THE MINIMUM (SHOALEST) SOUNDING IN THE SAMPLING AREA.

GRAPHIC DEPICTION OF

DATUM SEPARATIONS FOR

NEW BEDFORD HARBOR

2.32 FT.

-NAVD 88

-NGVD 29

0.83 FT.

1.49 FT.

-MIIW

184 HIGH STREET SUITE 802 BOSTON MA 02110 (817) 728-0070

REVISIONS

9/05/08 PRELIM DREDGE LAYOUT
11/14/08 BID SET
1/16/09 RE-BID
2/18/09 REV. FOOTPRINT LOCATION
3/23/09 FOR CONSTRUCTION
4/30/09 POST-DREDGE

PROJECT TITLE:

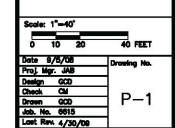
NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART B

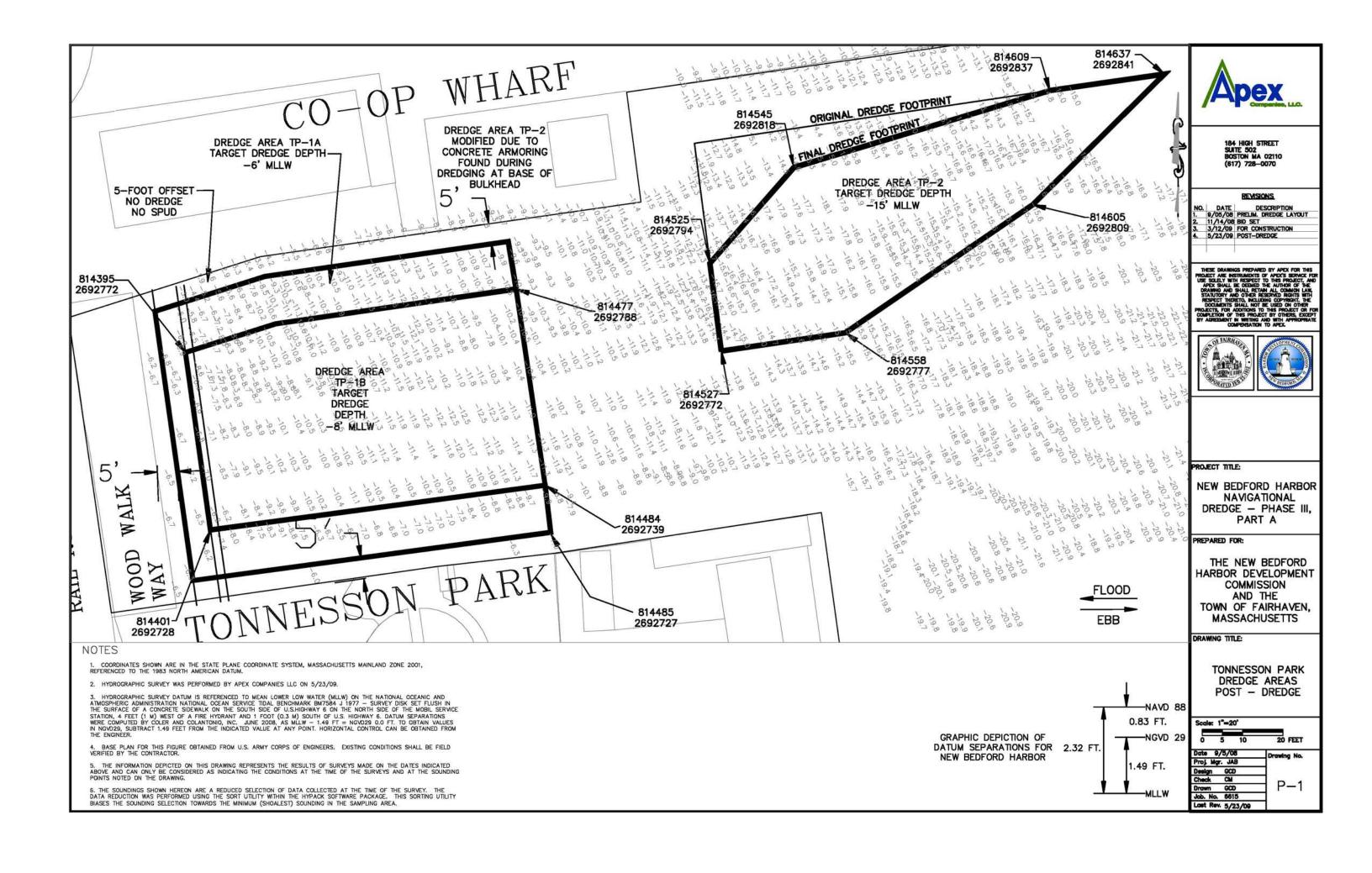
PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN. MASSACHUSETTS

DRAWING TITLE:

NEW BEDFORD ROWING FACILITY DREDGE AREA POST - DREDGE







- COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.
- 2. HYDROGRAPHIC SURVEY WAS PERFORMED BY APEX COMPANIES LLC ON 8/14/09.
- 3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE TIDAL BENCHMARK BM7584 J 1977 SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF U.S.HIGHWAY 6 ON THE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (I M) WEST OF A FIRE HYDRANT AND 1 FOOT (O.3 M) SOUTH OF U.S. HIGHWAY 6. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC. JUNE 2008, AS MLLW 1.49 FT = NGYD29 0.0 FT, TO OBTAIN VALUES IN NGVO29, SUBTRACT 1.49 FET FROM THE INDICATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.
- 4. BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- 5. THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEYS AND AT THE SOUNDING POINTS NOTED ON THE DRAWING.
- 6. THE SOUNDINGS SHOWN HEREON ARE A REDUCED SELECTION OF DATA COLLECTED AT THE TIME OF THE SURVEY. THE DATA REDUCTION WAS PERFORMED USING THE SOFT LITILITY WITHIN THE HYPACK SOFTWARE PACKAGE. THIS SORTING UTILITY BIASES THE SOUNDING SELECTION TOWARDS THE MINIMUM (SHOALEST) SOUNDING IN THE SAMPLING AREA.

GRAPHIC DEPICTION OF

DATUM SEPARATIONS FOR NEW BEDFORD HARBOR

2.32 FT.

-NAVD 88

-NGVD 29

0.83 FT.

.49 FT.

-MLLW



184 HIGH STREET SUITE 502 BOSTON MA 02110 (617) 728-0070

REVISIONS

O. DATE DESCRIPTION
9/05/08 PRELIM. DREDGE LAYOUT
11/14/08 BID SET
3/12/09 FOR CONSTRUCTION
8/14/09 POST—DREDGE

THESE DRAWNGS PREPARED BY APEX FOR THIS OBJECT ARE SISTEMBLETS OF APEX'S SENGLEY WITH RESTRICT TO THIS PROJECT, AND APEX SHALL BE OBBINED THE AUTHOR OF THE DRAWNO AND SHALL RETAIN ALL COMMON LAW, STALLUTORY AND OTHER RESERVED RIGHTS WITH ADDITIONAL ADDITIONAL SHALL BE SHALL BOT THE USED ON OTHER OUPLINGS OF THIS PROJECT OF FOR OUPLINGS OF THIS PROJECT OF THE P





PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE — PHASE III, PART A

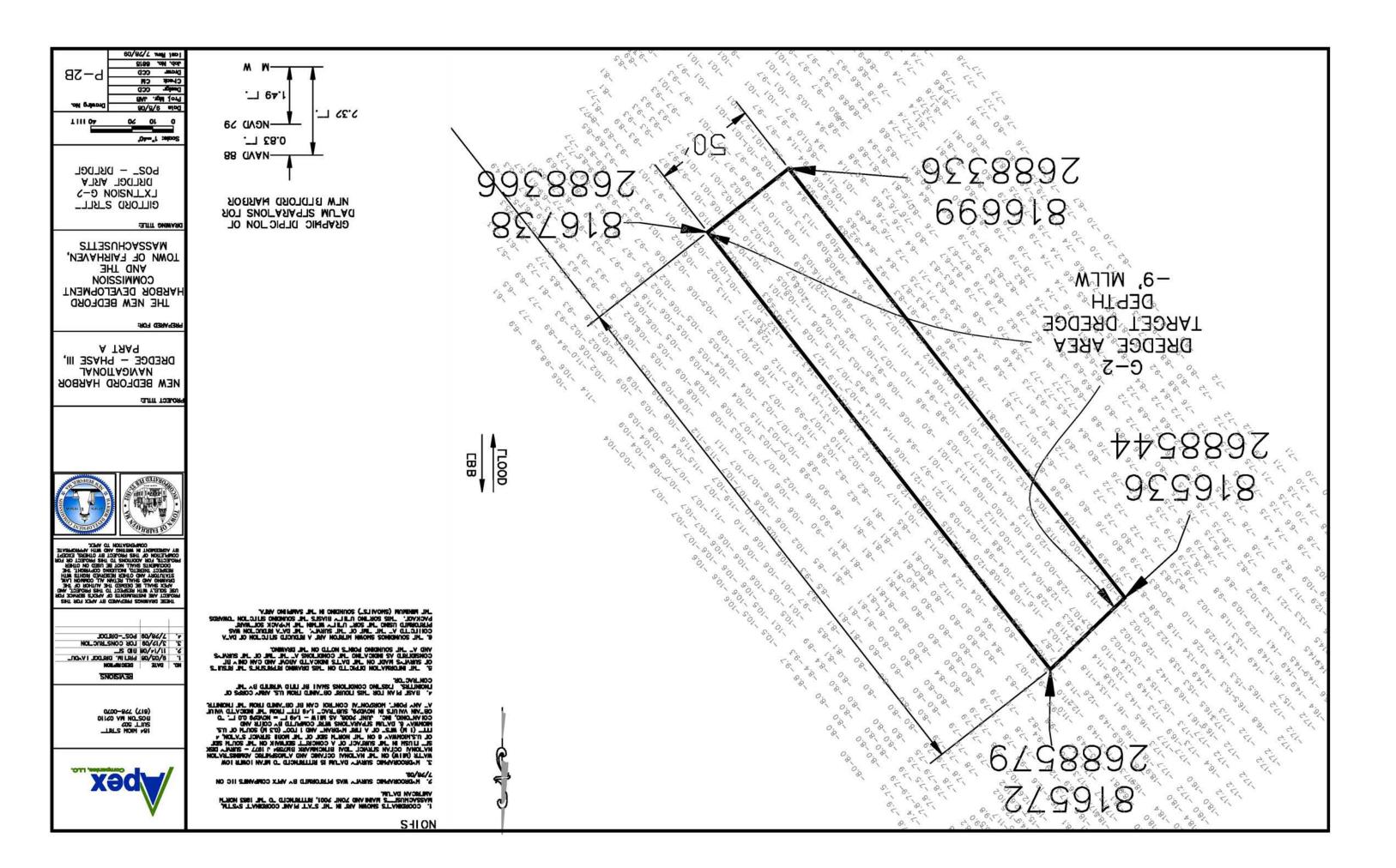
PREPARED FOR:

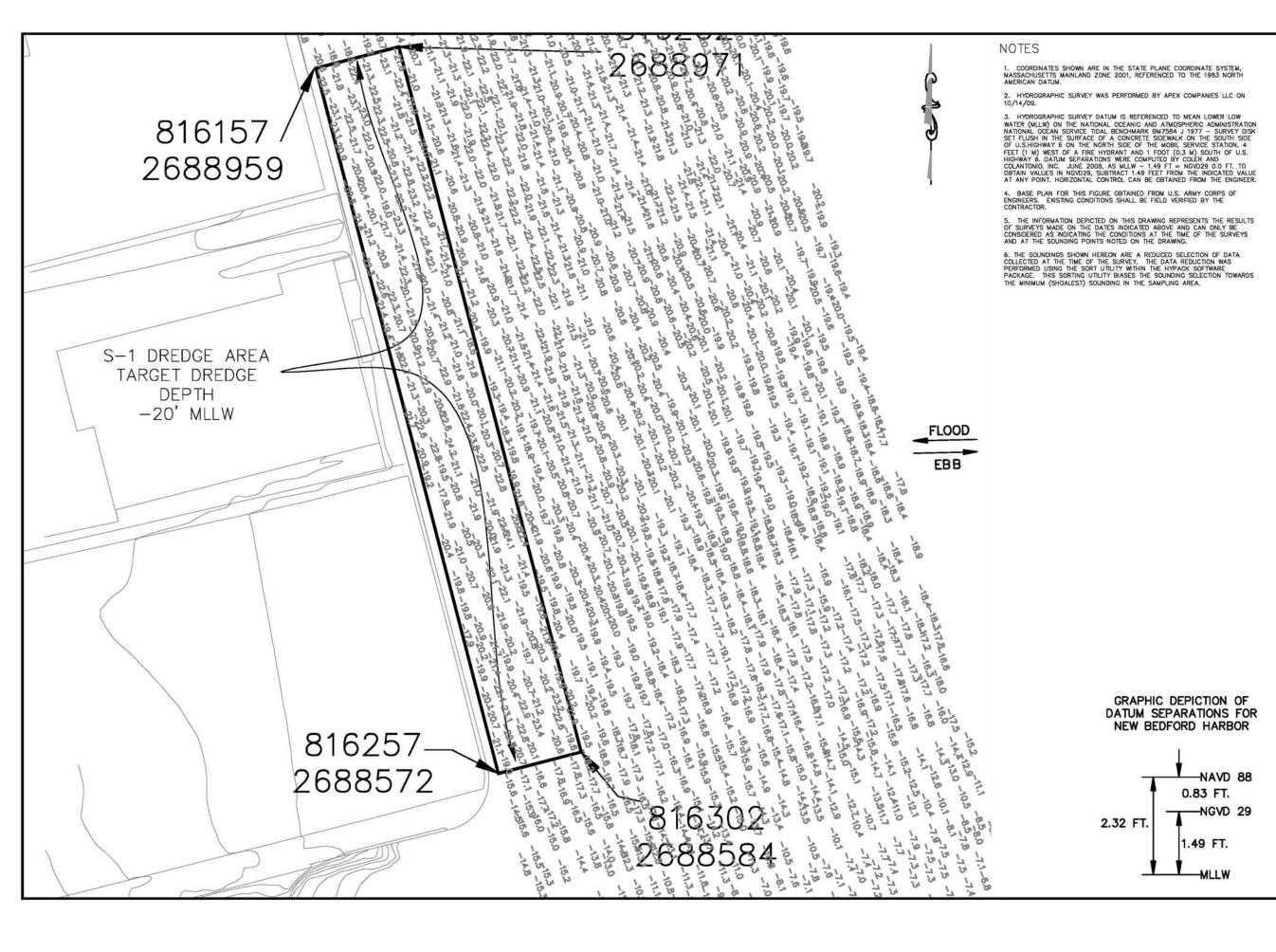
THE NEW BEDFORD
HARBOR DEVELOPMENT
COMMISSION
AND THE
TOWN OF FAIRHAVEN,
MASSACHUSETTS

DRAWING TITLE:

GIFFORD STREET BOAT RAMP DREDGE AREA POST - DREDGE

Scale: 1"=100"	
0 25 50	100 111 7
Data 9/5/08	Drawing No.
Proj. Mgr. JAB	
Design CCD	
Check CM	J n n
Draw CCD	P-2
Job. No. 6615	
last Rev. 8/14/09	1







184 HIGH STREET SUITE 502 BOSTON MA 02110 (617) 728-0070

REVISIONS

0. DATE DESCRIPTION
9/05/08 PRELIM. DREDGE LAYOUT
11/14/08 BID SET
3/12/09 FOR CONSTRUCTION

THESE DRAWNOS PREPARED BY APEX FOR THIS ORDERT ARE SISTEMBRISH OF APEX'S SERVICE FROM SHALL BE OBBINED THE AUTHOR OF THE DRAWNO AND SHALL RETAIN ALL COMMON LAW, STALLIFOR OF THE AUTHOR OF THE STALLIFOR SHALL MOT BE USED ON OTHER DOCUMENTS SHALL MOT BE USED ON OTHER OUPLETON OF THIS PROJECT OF FOR OUPLETON OF THIS PROJECT OF FOR OUPLETON OF THIS PROJECT OF FOR OUPLETON OF THIS PROJECT OF FOR





PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE — PHASE III, PART A

TEPARED FOR

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN, MASSACHUSETTS

AWING TITLE:

SOUTH TERMINAL DREDGE AREA POST — DREDGE

Socie	x: 1"=50	7	
•	12.5	2ъ	50 III T
Date	9/5/0	6	Drawing No.
Proj.	Mgr. J/	VB	

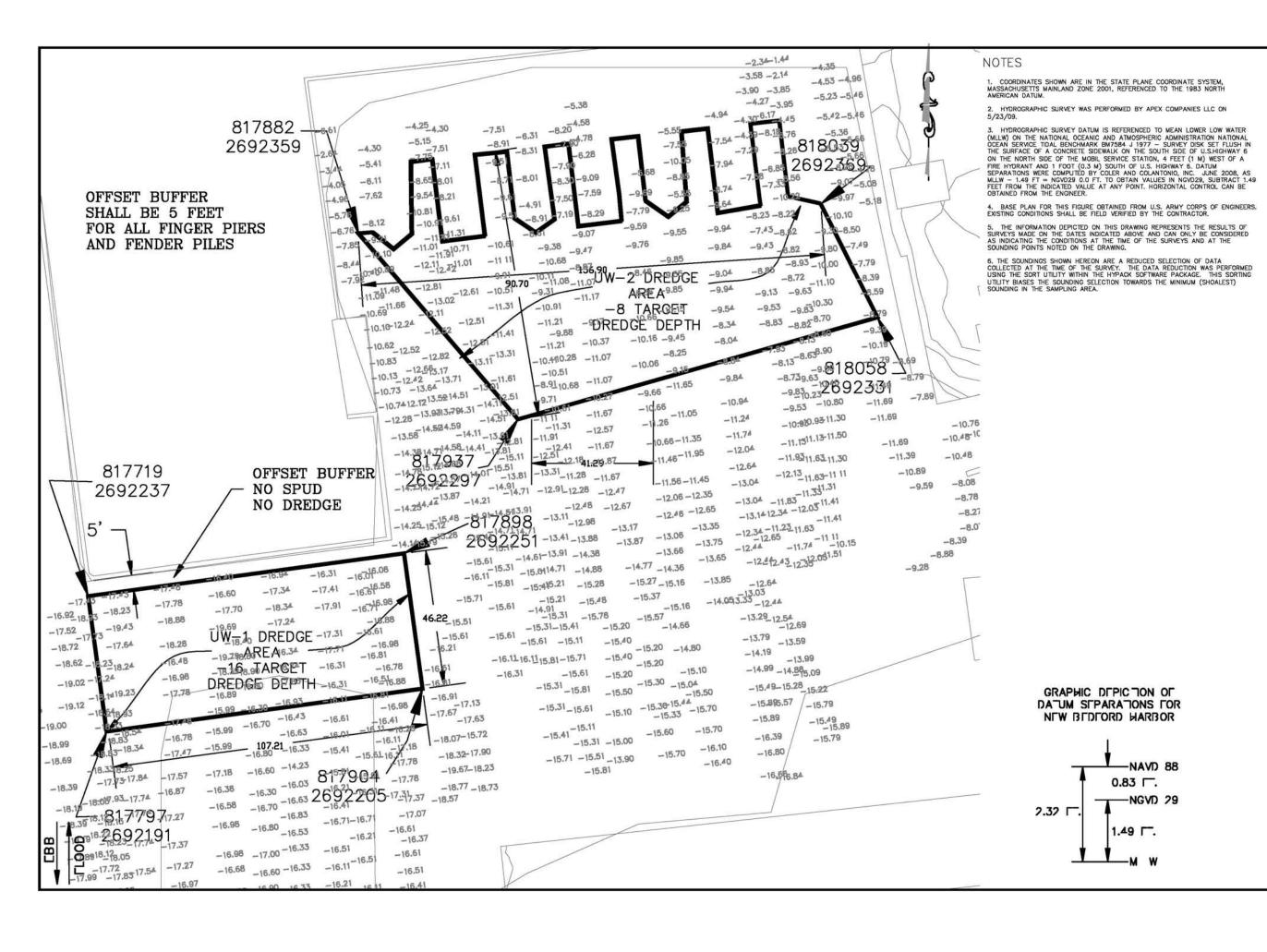
Proj. Mgr. JAB

Design CCD

Check CM

Drower CCD

Job. No. 6615





184 HIGH STREET SUITE 502 BOSTON MA 02110 (617) 728-0070

REVISIONS

DATE DESCRIPTION
9/05/08 PRELIM. DREDGE LAYOUT
11/14/08 BID SET
3/12/09 FOR CONSTRUCTION 5/23/09 POST-DREDGE





PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III. PART A

PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN. MASSACHUSETTS

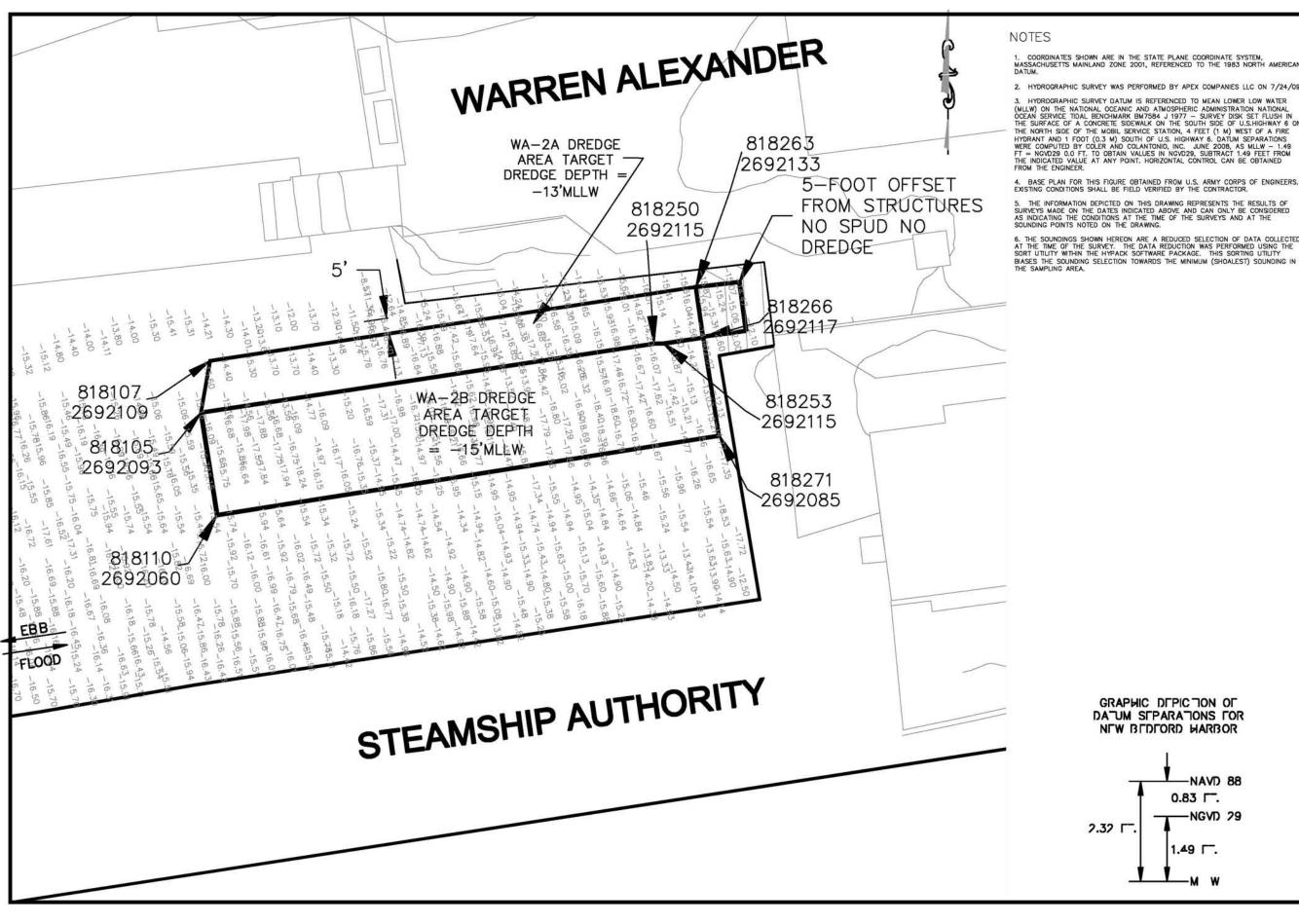
DRAWING TITLE:

UNION WHARF DREDGE AREAS POST - DREDGE

Sc	ale:	17	-3
- 1			

0 7.5 15 30 FEET Date 9/5/08 Proj. Mgr. JAB

P-4A Drawn GCD Job. No. 6615 Last Rev. 5/23/09



3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE TIDAL BENCHMARK BM7584 J 1977 — SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF U.S.HIGHWAY 6 OTHE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (1 M) WEST OF A FIRE HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY 6. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC. JUNE 2008, AS MILW - 1.49 FT = NGVD29 0.0 FT. TO OBTAIN VALUES IN NGVD29, SUBTRACT 1.49 FEET FROM THE INDICATED VALUE AT ANY POINT, HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.

6. THE SOUNDINGS SHOWN HEREON ARE A REDUCED SELECTION OF DATA COLLECTED AT THE TIME OF THE SURVEY. THE DATA REDUCTION WAS PERFORMED USING THE SORT UTILITY WITHIN THE HYPACK SOFTWARE PACKAGE. THIS SORTING UTILITY BIASES THE SOUNDING SELECTION TOWARDS THE MINIMUM (SHOALEST) SOUNDING IN



184 HIGH STREET SUITE 502 BOSTON MA 02110 (617) 728-0070

REVISIONS

0.		
	9/05/08	PRELIM. DREDGE LAYOUT
	11/14/08	
	3/12/09	FOR CONSTRUCTION
		POST-DREDGE
	The state of	Taken Taken Society





PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A

PREPARED FOR:

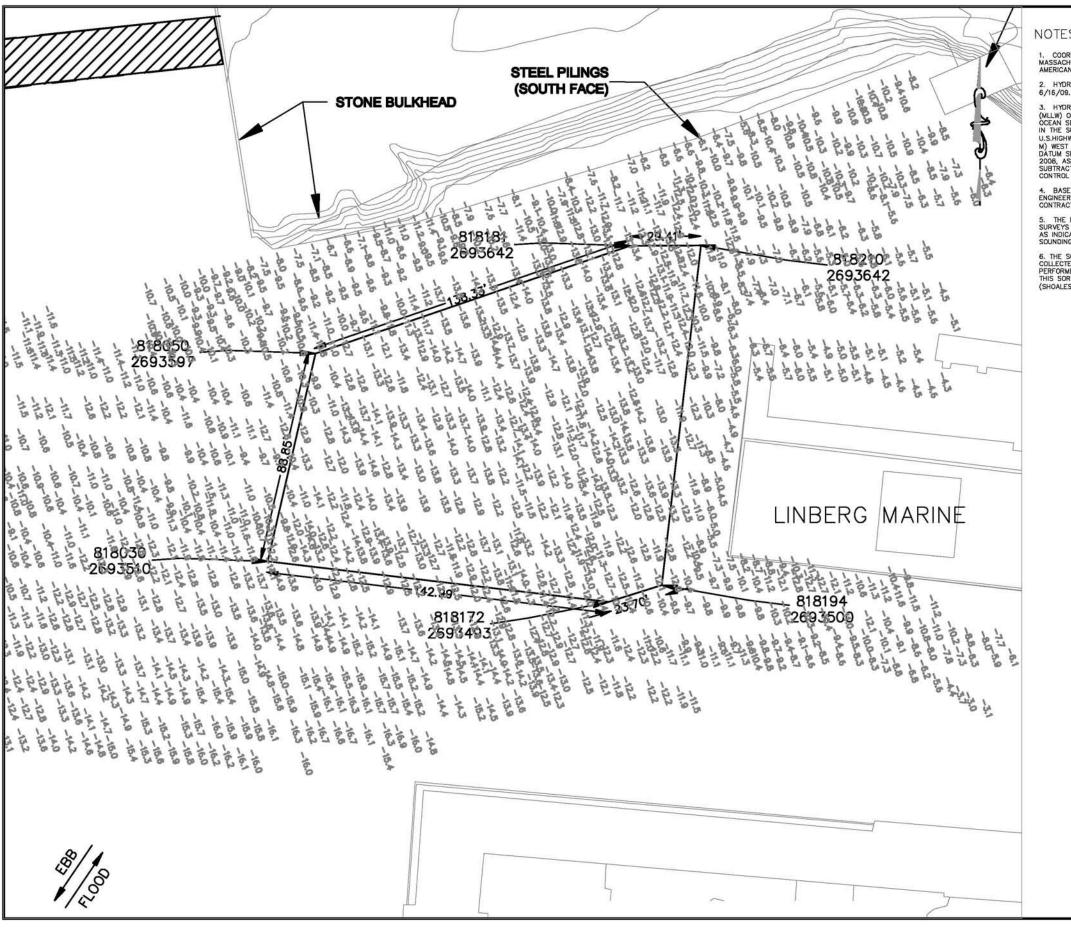
THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN. MASSACHUSETTS

DRAWING TITLE:

WARREN ALEXANDER SOUTH DREDGE AREA POST - DREDGE

Scale: 1"=30"	
0 7.5	15 30 FEET
Date 9/5/08	Drawing No.
Proj. Mgr. JAB	

P-4B



- COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.
- 2. HYDROGRAPHIC SURVEY WAS PERFORMED BY APEX COMPANIES LLC ON 6/16/09.
- 3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE IDAL BENCHMARK BM7584 J 1977 SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SDEWALK ON THE SOUTH SIDE OF U.S.HIGHWAY 6 ON THE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (1 M) WEST OF A FIRE HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY 6 DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC. JUNE 2008, AS MLLW 1.49 FET FROM THE INDICATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.
- 4. BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- 5. THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEY'S MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEYS AND AT THE SOUNDING POINTS NOTED ON THE DRAWING.
- 6. THE SOUNDINGS SHOWN HEREON ARE A REDUCED SELECTION OF DATA COLLECTED AT THE TIME OF THE SURVEY. THE DATA REDUCTION WAS PERFORMED USING THE SORT UTILITY WITHIN THE HYPACK SOFTWARE PACKAGE. THIS SORTING UTILITY BIASES THE SOUNDING SELECTION TOWARDS THE MINIMUM (SHOALEST) SOUNDING IN THE SAMPLING AREA.



184 HIGH STREET SUITE 502 BOSTON MA 02110 (617) 728-0070

REVISIONS

O. DATE DESCRIPTION
9/05/08 PRELIM DREDGE LAYOUT
11/14/08 BID SET
3/12/09 FOR CONSTRUCTION
6/16/09 POST-DREDGE

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PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE — PHASE III, PART A

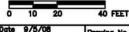
PREPARED FOR:

THE NEW BEDFORD
HARBOR DEVELOPMENT
COMMISSION
AND THE
TOWN OF FAIRHAVEN,
MASSACHUSETTS

DRAWING TITLE:

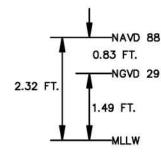
LINBERG MARINE DREDGE AREA POST — DREDGE

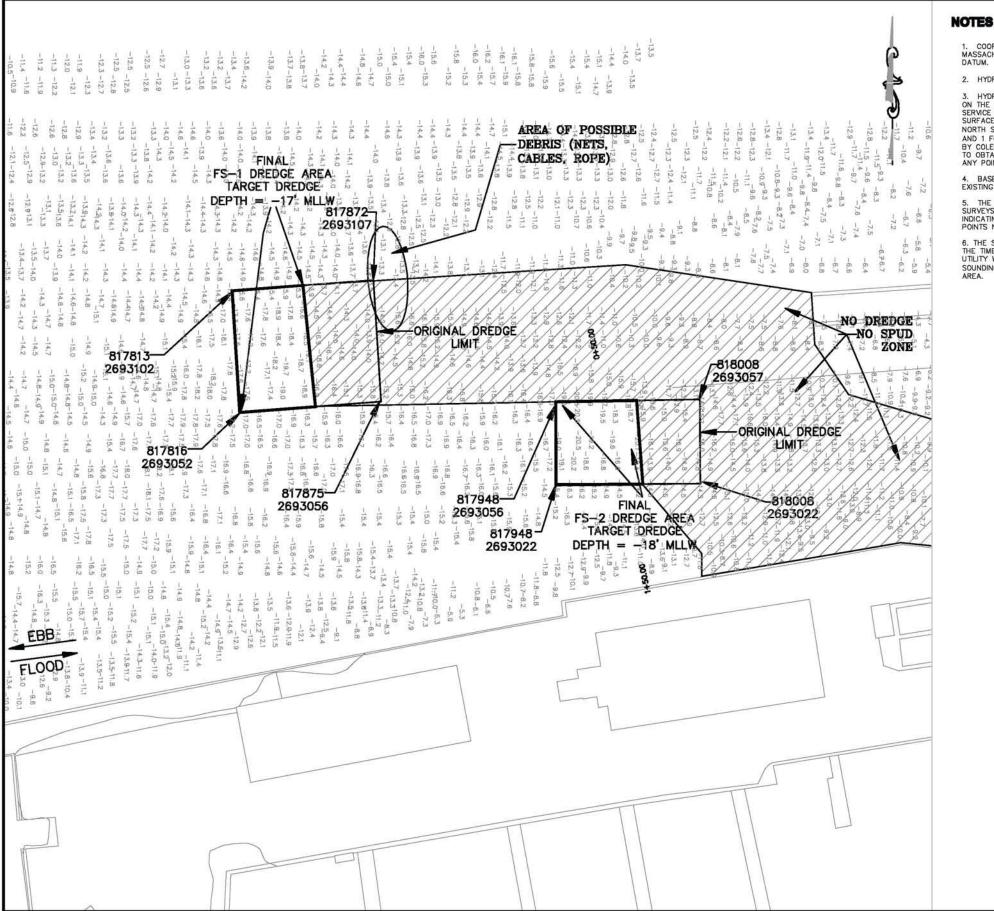
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Check	CM	
Drawn	GCD	7 2-5
Job. No.	6615	
Last Rev.	6/16/09	

GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR





- COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.
- 2. HYDROGRAPHIC SURVEY WAS PERFORMED BY APEX COMPANIES LLC ON 6/15/09.
- 3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE TIDAL BENCHMARK BM7584 J 1977 SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF U.S.HIGHWAY 6 ON THE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (1 M) WEST OF A FIRE HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY 6. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC. JUNE 2008, AS MLLW 1.49 FT = NGVD29 0.0 FT. TO OBTAIN VALUES IN NGVD29, SUBTRACT 1.49 FEET FROM THE INDICATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.
- 4. BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- 5. THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEYS AND AT THE SOUNDING POINTS NOTED ON THE DRAWING.
- 6. THE SOUNDINGS SHOWN HEREON ARE A REDUCED SELECTION OF DATA COLLECTED AT THE TIME OF THE SURVEY. THE DATA REDUCTION WAS PERFORMED USING THE SORT UTILITY WITHIN THE HYPACK SOFTWARE PACKAGE. THIS SORTING UTILITY BIASES THE SOUNDING SELECTION TOWARDS THE MINIMUM (SHOALEST) SOUNDING IN THE SAMPLING AREA.

GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR

NEW BEDFORD HARBOR

2.32 FT.

-NAVD 88

-NGVD 29

0.83 FT.

.49 FT.



184 HIGH STREET SUITE 502 BOSTON MA 02110 (617) 728-0070

REVISIONS

NO. DATE DESCRIPTION
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6/15/09 POST—DREDGE

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PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE — PHASE III, PART A

PREPARED FOR:

THE NEW BEDFORD
HARBOR DEVELOPMENT
COMMISSION
AND THE
TOWN OF FAIRHAVEN,
MASSACHUSETTS

DRAWING TITLE:

FAIRHAVEN SHIPYARD DREDGE AREAS POST — DREDGE

Scale	: 1"-4	0,	
-	10	20	40 FEET
Date Proj.	9/5/0 Mgr. J/		Drawing No.
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Proj. Mgr. JAB

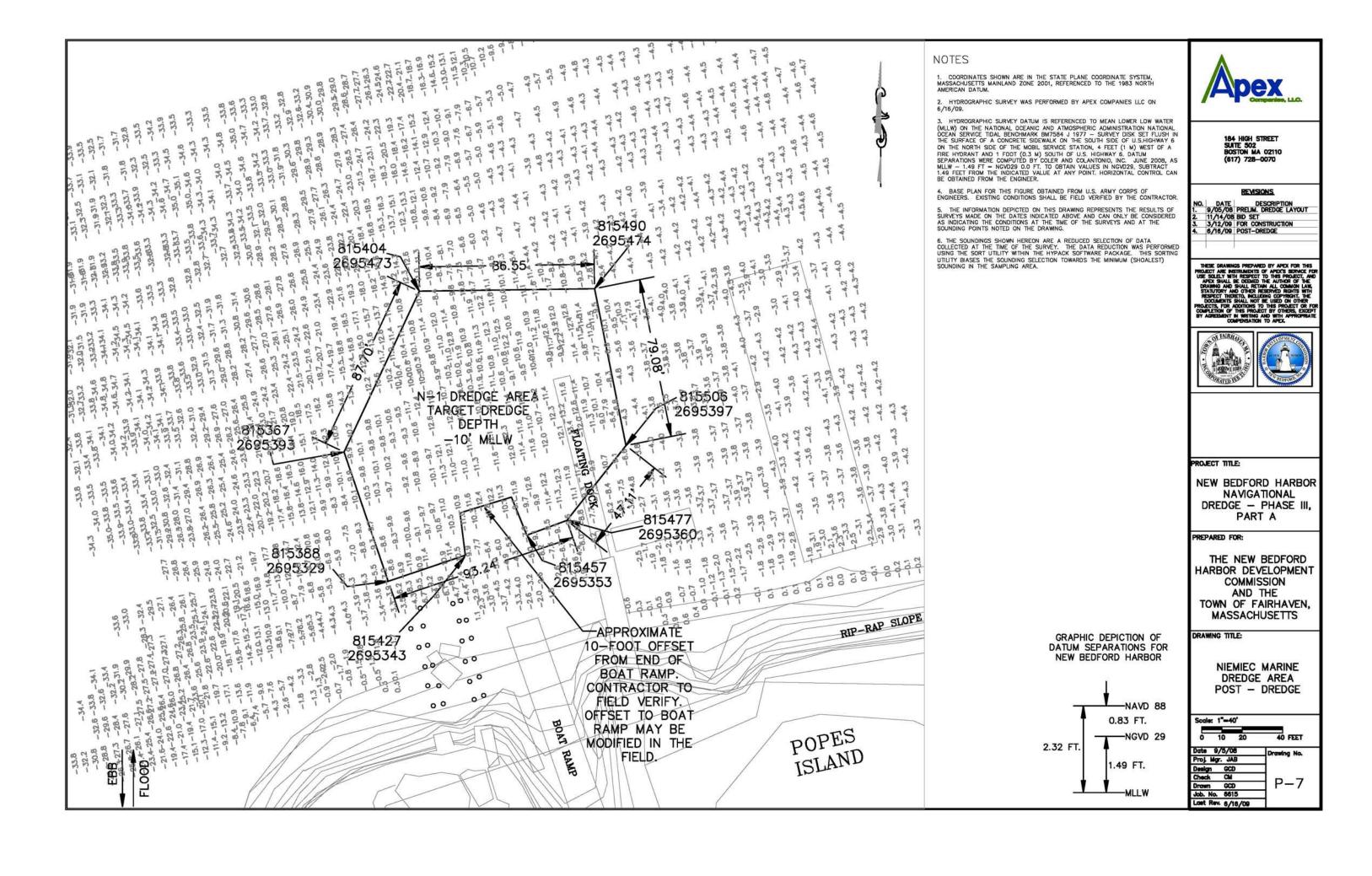
Design GCD

Check CM

Drawn GCD

Job. No. 6615

Lost Rev. 6/15/09





 COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.

2. HYDROGRAPHIC SURVEY WAS PERFORMED BY APEX COMPANIES LLC ON

3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE TIDAL BENCHMARK BM7584 J 1977 — SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF U.S.HIGHWAY 6 ON THE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (1 M) WEST OF A FIRE HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY 6. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC.: JUNE 2008, AS MILW — 1.49 FT = NGVD29 0.0 FT. TO OBTAIN VALUES IN NGVD29, SUBTRACT 1.49 FEET FROM THE INDICATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.

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GRAPHIC DEPICTION OF

DATUM SEPARATIONS FOR NEW BEDFORD HARBOR

2.32 FT

NAVD 88 0.83 FT.

-NGVD 29

.49 FT.

-MLLW



184 HIGH STREET SUITE 502 BOSTON MA 02110 (617) 728-0070

REVISIONS

NO. DATE DESCRIPTION
. 9/05/08 PRELIM. DREDGE LAYOUT
2. 11/4/08 BID SET
3. 3/12/09 FOR CONSTRUCTION
7/10/09 POST—DREDGE

THESE DRAWINGS PREPARED BY APEX FOR THIS ROLLECT ARE INSTRUMENTS OF APEX SERVICE FOR INSECULATION RESPONDED TO THIS PROJECT, AND APEX SALL BE ODERED THE AUTHOR OF THE PROMISED AND SHALL RESPONDED RIGHTS WITH STATUTORY AND OTHER RESPONDED RIGHTS WITH RESPECT HIDRETO, INCLINION COPYRIGHT, THE DOCUMENTS SHALL NOT BE USED ON OTHER ROLLECTS, FOR ADDITIONS TO HISE PROJECT OF FOR ROLLECTS, FOR ADDITIONS TO HISE PROJECT OF FOR PROJECT OF THIS PROJECT OF THE PROJECT OF THE PROJECT OF THIS PROJECT OF THE PROJECT OF THIS PROJECT OF THE PROJ





PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A

PREPARED FOR:

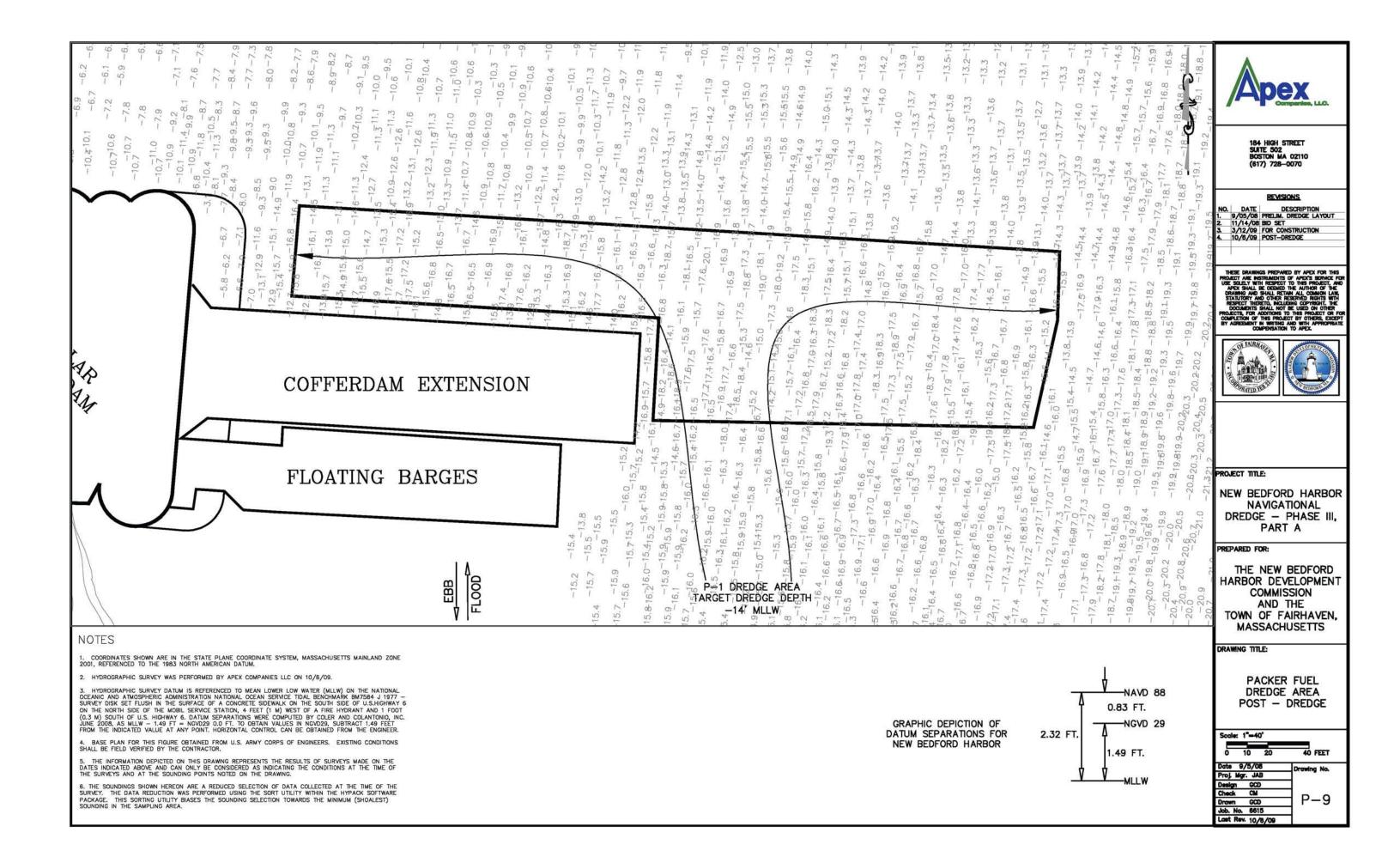
THE NEW BEDFORD
HARBOR DEVELOPMENT
COMMISSION
AND THE
TOWN OF FAIRHAVEN,
MASSACHUSETTS

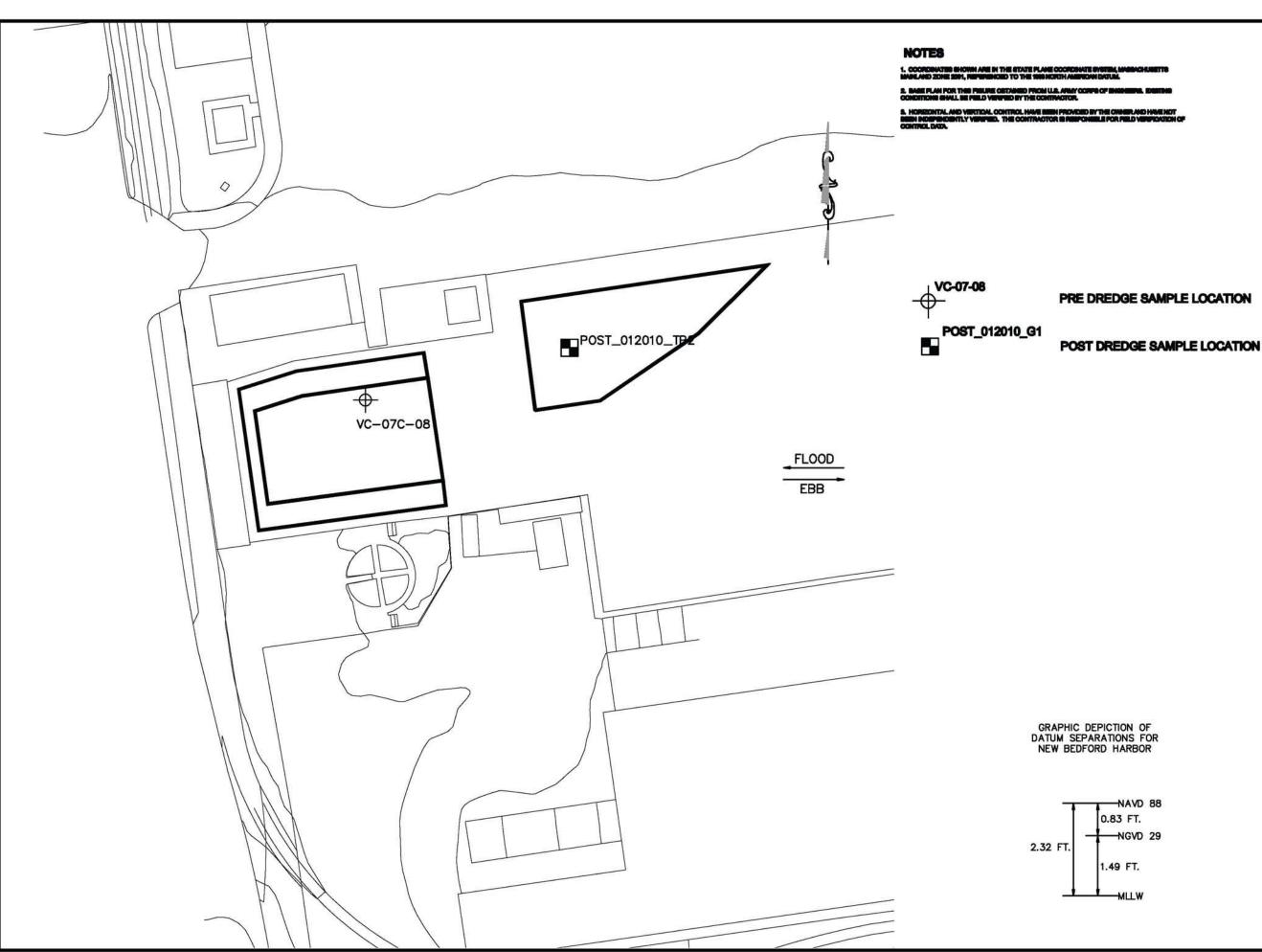
DRAWING TITLE:

Last Rev. 7/10/09

OLD NORTH WHARF FISHERIES DREDGE AREA POST — DREDGE

Scale: 1"=30"	
0 7.5 15	30 FEET
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Job. No. 6615	







184 HIGH STREET SUITE 502 BOSTON, MA. 02110 (517) 728-0070

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PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A & B

PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN, MASSACHUSETTS

DEMMINS TITLE

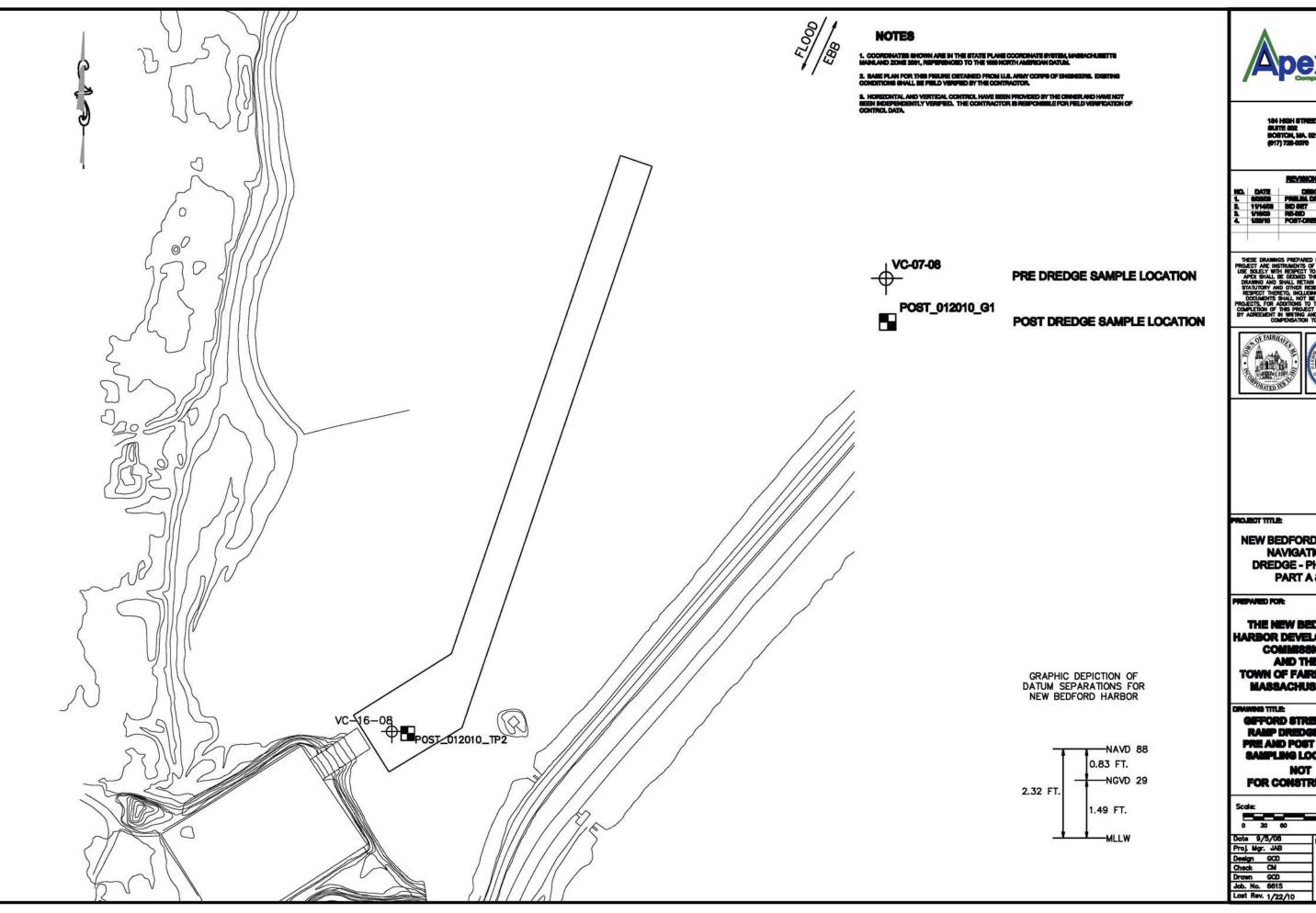
TONNESSON PARK DREDGE AREAS-PRE AND POST DREDGE SAMPLING LOCATIONS NOT FOR CONSTRUCTION

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GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR

NAVD 88

NGVD 29





184 HIGH STREET SUITE 802 BOSTON, MA. 02110 (817) 729-0070

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2. 1/10/00 RE-BE)
4. 1/20/10 POST-	DREDGE SAMPLES





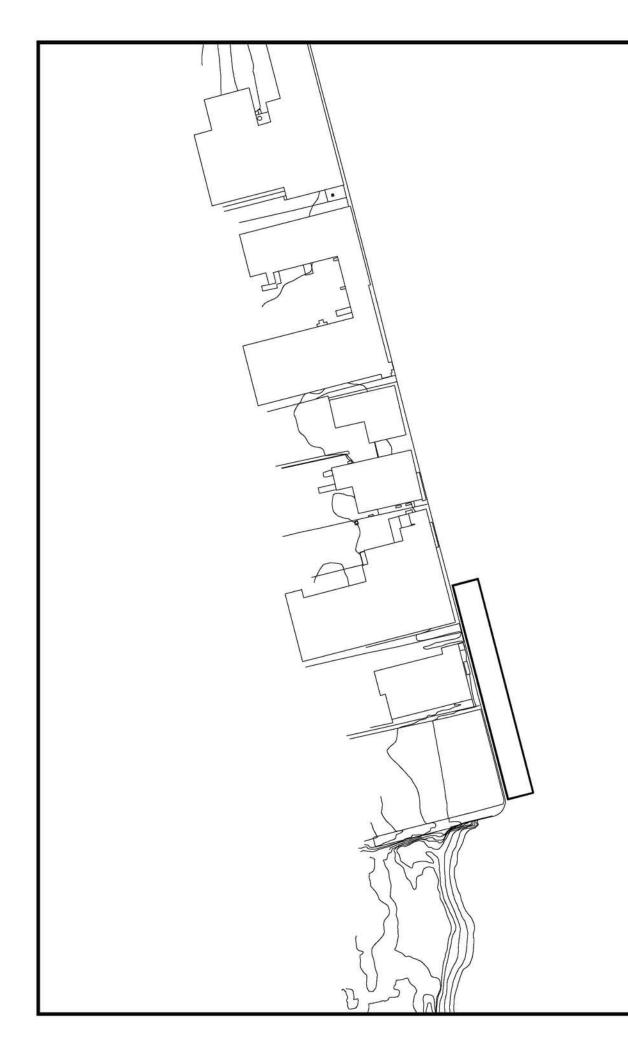
NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A & B

HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN, MASSACHUSETTS

GEFORD STREET BOAT RAMP DREDGE AREA-PRE AND POST DREDGE **SAMPLING LOCATIONS** FOR CONSTRUCTION

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- 1. GOORDSWITED SHOWN ARE IN THE STATE PLANE GOORDSWITE SYSTEM, WAS MARKAND ZONE 2001, REFERENCED TO THE 1920 NORTH AMERICAN DATUM.
- 2. SAME PLAN FOR THE PISURE OSTABLED FROM ILB. ARMY CORPS OF EN CONDITIONS SHALL SE PISUR VERWIND BY THE CONTRACTOR.



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4	1/39/10	POST-DREDGE SAMPLES





PRE DREDGE SAMPLE LOCATION

POST DREDGE SAMPLE LOCATION

PROJECT TITLE

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A & B

PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN, MASSACHUSETTS

DRAWING TITLE:

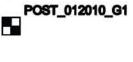
SOUTH TERMINAL DREDGE AREAS- PRE AND POST DREDGE SAMPLING LOCATIONS

NOT FOR CONSTRUCTION

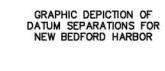
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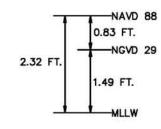
ı	Date 9/	5/08	Drawing No.
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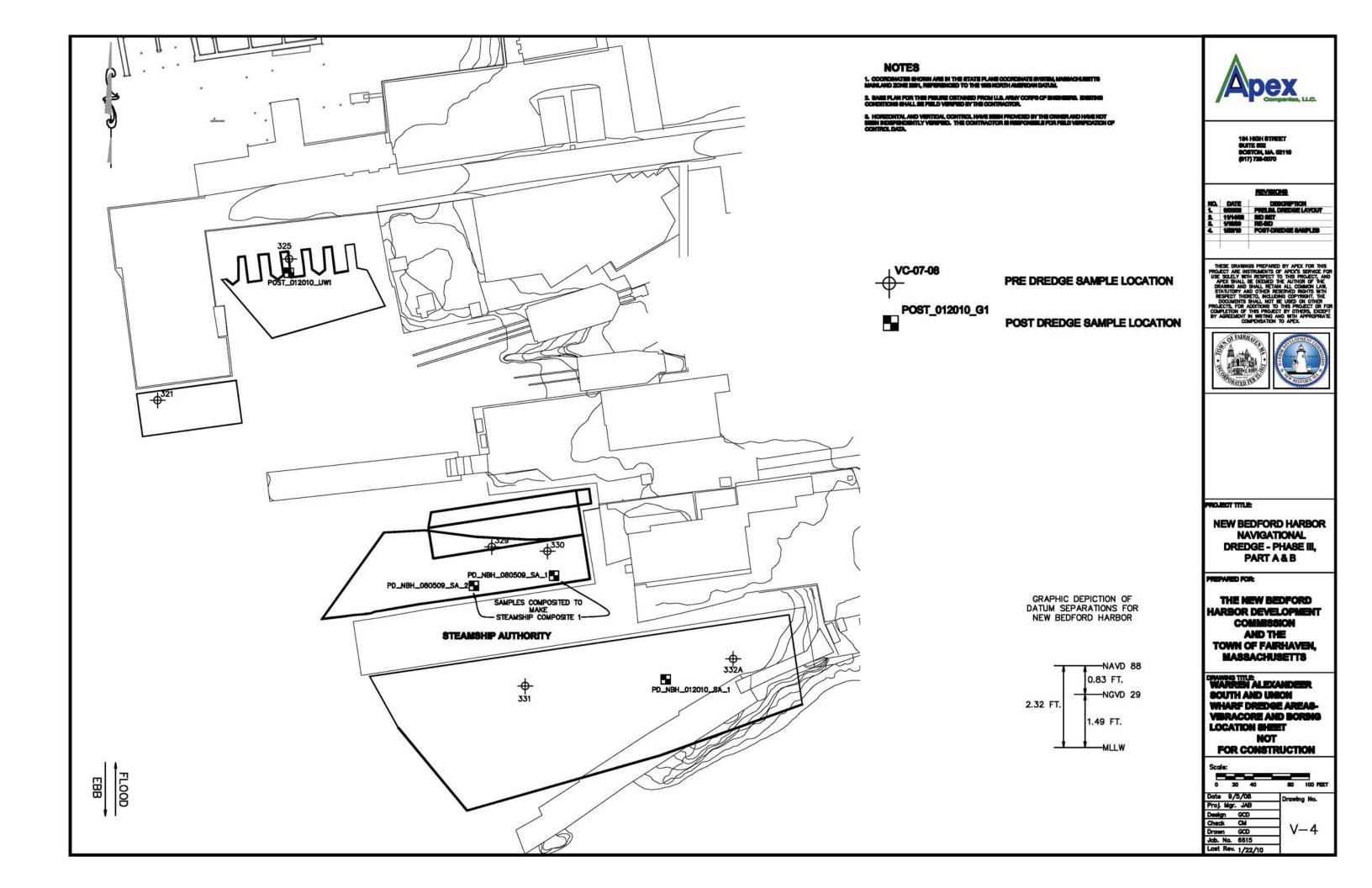
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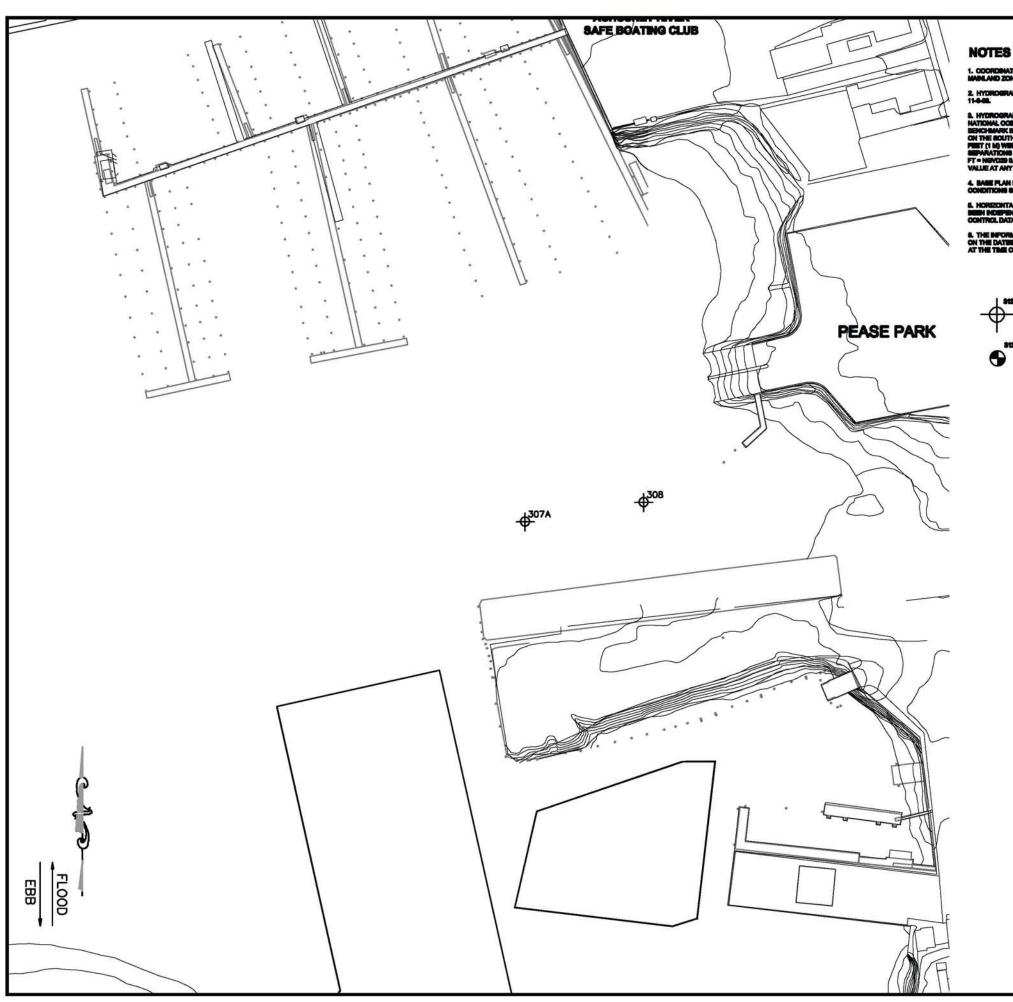












1. COORDINATER SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MAINLAND ZONE 2001, REFERENCED TO THE 1988 NORTH AMERICAN DATUM.

2. HYDROGRAPHIC SURVEY IS A COMPLATION OF SURVEYS PREFCRIED BETWEEN 9-11-08-AND 11-0-08.

3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANED AND ATMOSPHERIC ADMINISTRATION MATICALL COEM SERVICE TIDAL BENCHMARK EMPIRE 4 1977 - SURVEY DISK SET FLUEN IN THE SURFACE OF A CONCRETE SUSPINAL ON THE SOUTH SEDE OF LULA HIGHWAY S ON THE MORTH SEDE OF THE MIDSEL SERVICE STATION, 4 PRET (1 M) WISST OF A FIRST HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY S. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONO, MC. IS HERLIARY 2002AS MLLW-1.02 FT = NGVIDE OF T. TO CRITAN VALUES IN MOVING, SUBTRACT 1.02 FEET FROM THE INCIDATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OSTAINED FROM THE BRIDGET.

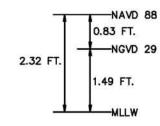
4. BASE PLAN FOR THIS FIGURE OSTAINED FROM U.S. APMY CORPS OF ENGRAPHIS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

6. HORIZONTAL AND VERTICAL CONTROL HAVE BEEN PROVIDED BY THE OWNER AND HAVE NOT BEEN INDEPENDENTLY VERTIED. THE CONTRACTOR IS REPOWIBLE FOR PIELD VERTICATION OF CONTROL DATA.

6. THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATED THE CONSTITUNIS AT THE TIME OF THE SURVEYS AND AT THE SOUNDING POINTS NOTED ON THE DRAWING.



GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR





115 BROAD STREET SUITE 200 BOSTON MA 02110 (817) 728-0070

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	191400	
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PROJECT TITLE:

NEW BEDFORD HARBOR **NAVIGATIONAL** DREDGE - PHASE III, PART A & B

PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN, **MASSACHUSETTS**

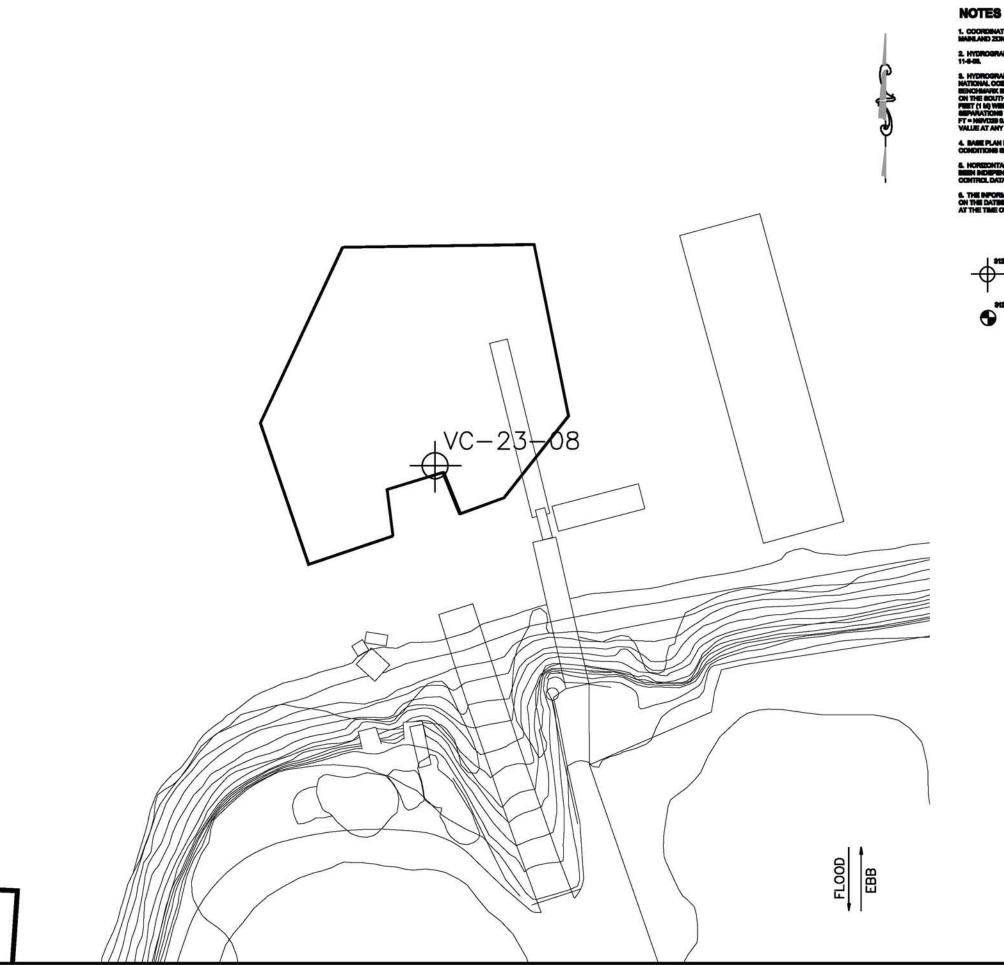
DRAWING TITLE

LINNERS DREDGE AREAS-VERACORE AND BORING LOCATION SHEET

NOT FOR CONSTRUCTION

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Date 9/5/08	Drawing No.
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Design GCD	
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Last Rev. 10/30/08	



1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MARLAND ZONE 2011, REFERENCED TO THE 1985 NORTH AMERICAN DATUM.

2. HYDROGRAPHIC SURVEY IS A COMPLATION OF SURVEYS PREFORMED SETWEEN 9-11-08 AND 11-6-08.

3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE MATICINAL COEMAG AND ATMOSPHERICO ADMINISTRATION MATICINAL COEMA SERVICE TEXA. BENCHMARK BEIGNS J 1977 - SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE BEDSWARK ON THE SOUTH SEDE OF LULLIBOH WAY SO IN THE MORTH SEDE OF THE MIGHL SERVICE STATION.4 PRET (1 M) WISST OF A FIRE HYDRANT AND 1 POOT (0.5 M) SOUTH OF U.S. HISHMAY S. DATUM SEPARATIONS WERE COMPUTED BY COLUR AND COLLARDON, D.C. PRINCIPLY 2002 AS MALW -1.52 FT - NOWIDED SOFT, TO SOTAN VALUE BY IN MOYORS, SURTRACT UZE FEET FROM THE BUILDINGS VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OSTANED FROM THE BUILDINGS.

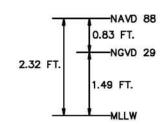
4. BASE PLAN FOR THIS PIGURE OSTAINED FROM U.S. AMAY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERSTED BY THE CONTRACTOR.

5. HORIZONTAL AND VERTICAL CONTROL HAVE BEEN PROVIDED BY THE OWNER AND HAVE NOT BEEN BIDDEPENDENTLY VERSTEID. THE CONTRACTOR IS PERFORMED FOR PIELD VERSTEIN OF CONTROL DATA.

6. THE REPORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND GAM ONLY BE CONSIDERED AS INDICATED THE CONDITIONS AT THE TIME OF THE SURVEYS AND AT THE SOLIKING POINTS MOTED ON THE DRAWING.



GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR





115 BROAD STREET SUITE 200 BOSTON MA 02110 (617) 728-0070

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	840208	PRELIM DREDGE LAYOUT		
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PROJECT TITLE

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A & B

PREPARED FOR:

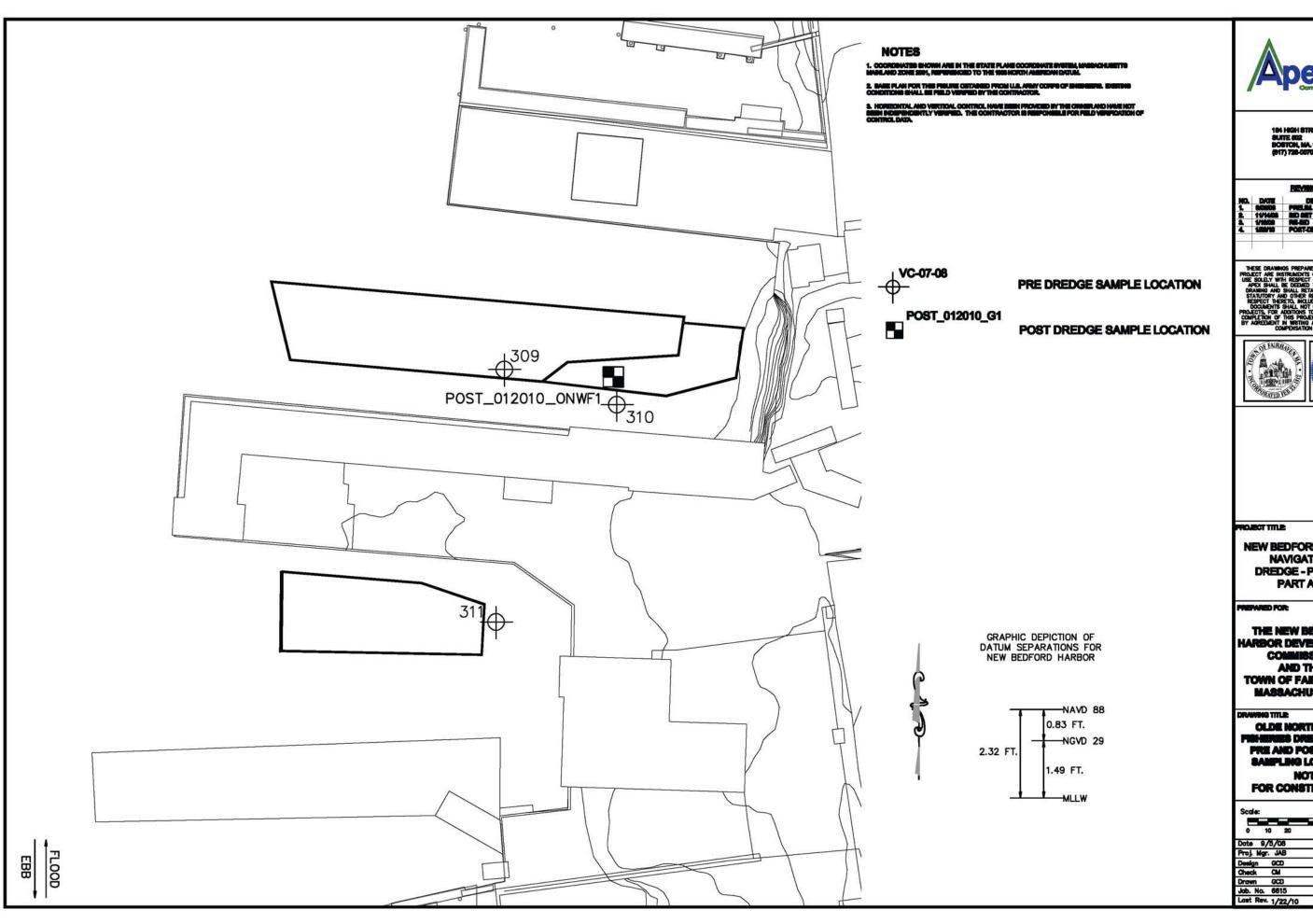
THE NEW BEDFORD
HARBOR DEVELOPMENT
COMMISSION
AND THE
TOWN OF FARHAVEN,
MASSACHUSETTS

DRAWING TITL

NEMIEC MARINE
DREDGE AREAVERACORE AND BORING
LOCATION SHEET
NOT
FOR CONSTRUCTION

Scale:	
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Check CM	J v, c
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Job. No. 6615	

Last Rev. 10/30/08





194 HIGH STREET SUITE 802 BOSTON, MA. 02110 (517) 728-0070



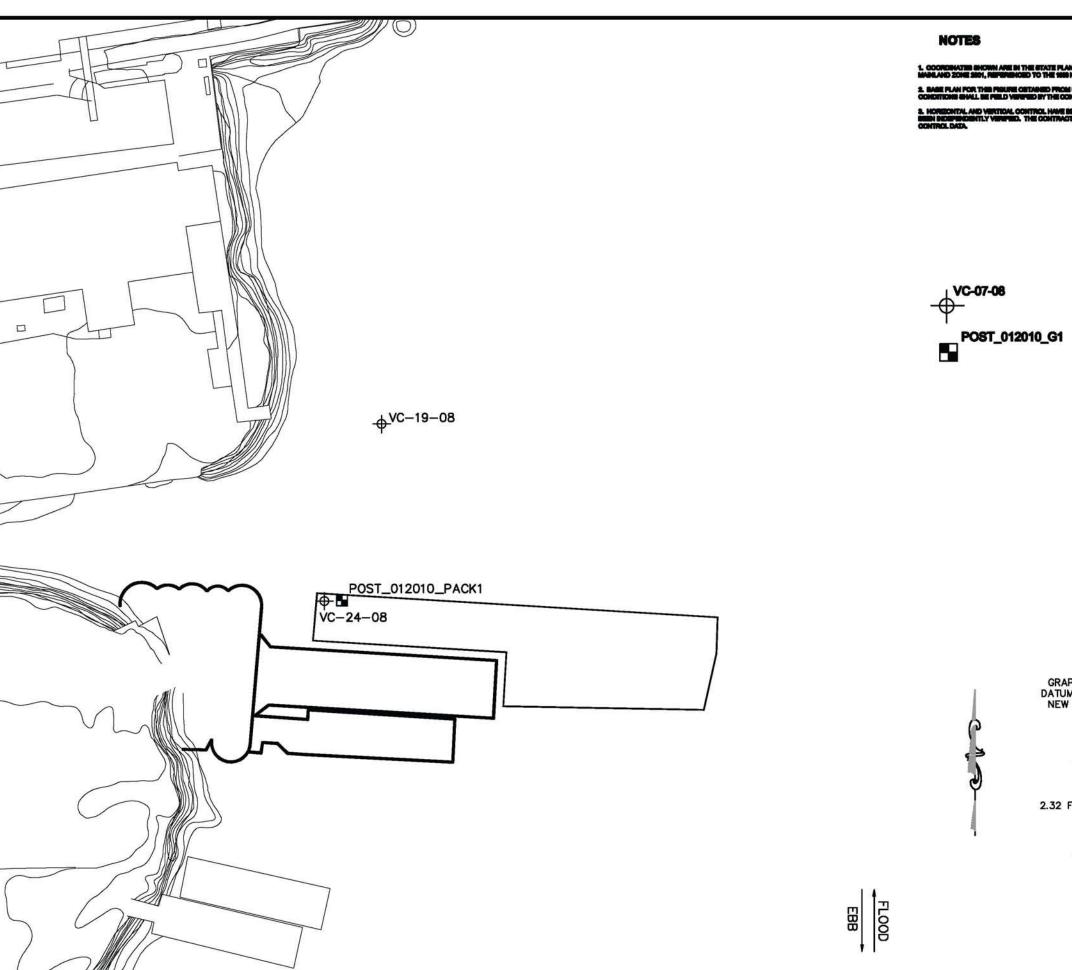


NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A & B

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN, **MASSACHUSETTS**

OLDE NORTH WHARF FIGHERES DREDGE AREAS PRE AND POST DREDGE SAMPLING LOCATIONS FOR CONSTRUCTION

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Date 9/5/08	Drawing No.
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Check CM	
Drawn GCD	□ V-/
Job. No. 6615	78 550



VC-07-08

1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MANAGED ZONE 2891, REPERENCED TO THE 1983 NORTH AMERICAN DATUM.

PRE DREDGE SAMPLE LOCATION

POST DREDGE SAMPLE LOCATION



104 HIGH STREET BUTTE SOR BOSTON, MA. 02110 (917) 729-0079





PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A & B

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN, MASSACHUSETTS

DRAWING TITLE

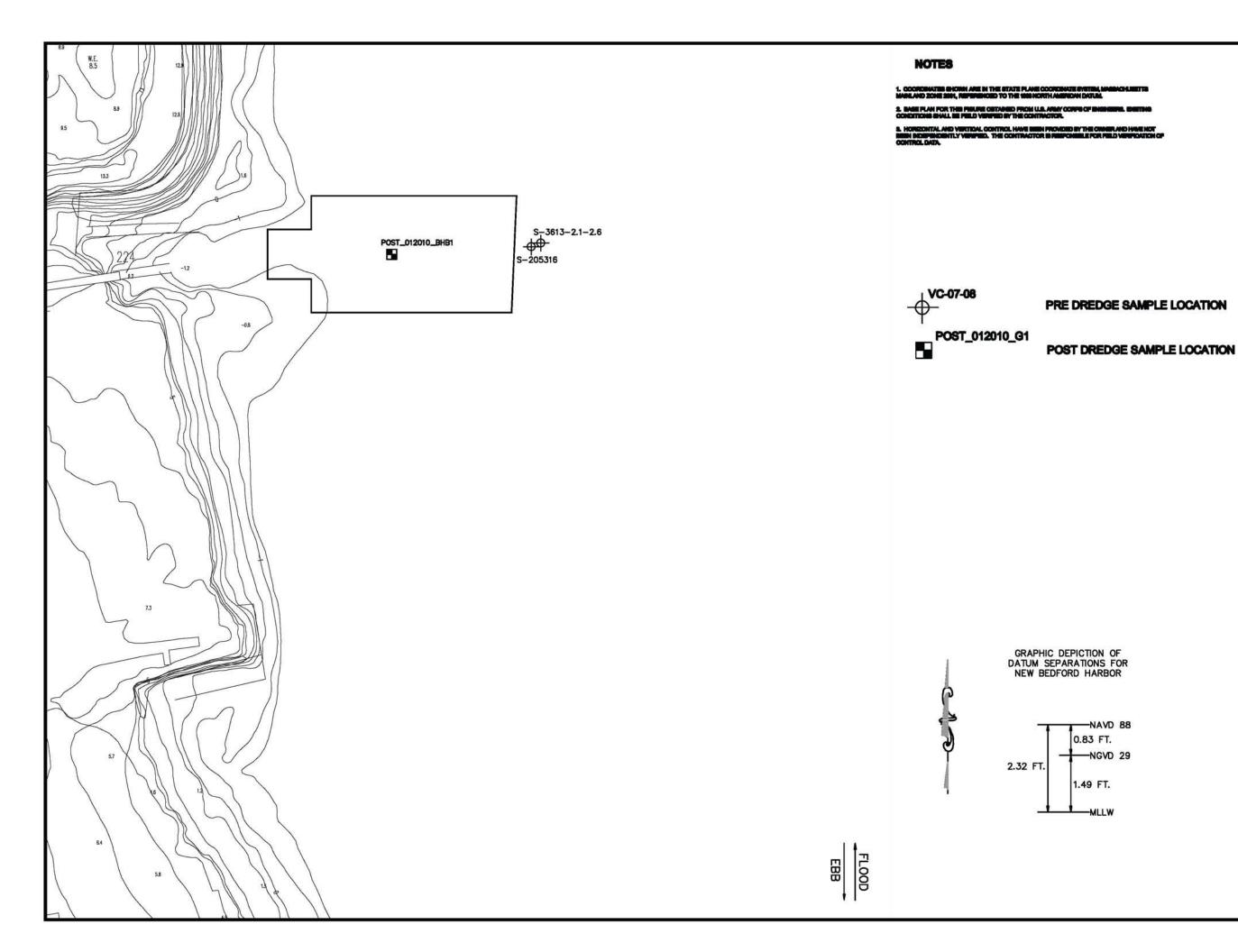
PACKER FUEL & MAR-LEES DREDGE AREAS PRE AND POST DREDGE SAMPLING LOCATIONS NOT FOR CONSTRUCTION

Scale				
	20	40	80	100 FEE
Date 9/5/08		Drawk	ng No.	

Date 9/5/08	Drawing No.
Proj. Mgr. JAB	
Design GCD	
Check CM	⊐ ., ה
Drawn GCD	∃ V–8
Job. No. 6615	
Last Rev. 1/22/10	

-NAVD 88 0.83 FT. -NGVD 29 2.32 FT. 1.49 FT.

GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR





184 HIGH STREET SUITE 882 BOSTON, MA. 62110 (917) 728-8670

REVISIONS.

DATE DESCRIPTION
SIGNS PRELIA DREDGE LAYOUT
191409 SD SET
14809 POST-DREDGE SAMPLES





PROJECT TITLE

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A & B

PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN, **MASSACHUSETTS**

NEW BEDFORD ROWING FACILITY DREDGE AREA PRE AND POST DREDGE **SAMPLING LOCATIONS** NOT FOR CONSTRUCTION

Scale	ĸ				
-	20	40	80	100 FEET	
arte.	9/8/	ne n	T	In	

Proj. Mgr. JAB Deelgn GCD Check CM

Last Rev. 1/22/10

V-9

APPENDIX A SEDIMENT ANALYTICAL DATA



ANALYTICAL REPORT

Prepared for:

Apex Environmental, Inc. 286 Congress Street Suite 610 Boston, MA 02210

Project:

New Bedford Harbor

ETR:

0610188

Report Date:

December 01, 2006

Certifications and Accreditations

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220602
Rhode Island 64
New Jersey MA015
Maine MA030
New York 11627
Louisiana 03090
Army Corps of Engineers
Department of the Navy
Florida E87814

This report shall not be reproduced except in full, without written approval from the laboratory.



Sample ID Cross Reference



Apex Environmental, Inc.

New Bedford Harbor ETR: 0610188

Lab Code: MA00030

Lab Sample ID	Client Sample ID
0610188-02	301 0-1
0610188-03	302 0-1
0610188-04	303 0-1
0610188-06	304 0-1
0610188-08	305 0-1
0610188-09	306 0-1
0610188-11	307A 0-1
0610188-13	308 0-1
0610188-15	309 0-1
0610188-16	310 0-1
0610188-18	329 0-1
0610188-19	332A 0-1
0610188-20	330 0-1

Gaps in Lab Sample IDs are indicative of samples not analyzed per client request.

CASE NARRATIVE Alpha Woods Hole Labs

ETR: 0610188

Project: New Bedford Harbor

All analyses were performed according to Alpha Woods Hole Labs quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report were performed within holding time, and with appropriate quality control measures, except where noted. A summary of all state and federal accreditations is provided within this report. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted. Air and sediment samples are either not certifiable under the NELAC and/or are not currently held as accredited matrices.

Sample Receipt

1. Samples were frozen upon receipt, extending the extraction holding time.

Polychlorinated Biphenyls by GC/MS

- 1. Several target congeners analyzed by this method co-elute with non-target congeners and are therefore reported as a co-eluting pair. Refer to the individual report forms.
- 2. The initial analysis of several samples had concentrations that exceeded the calibration range of the instrument. These samples were reanalyzed at dilution and both analyses are reported. Refer to the individual report forms for dilution requirements.

Extractable Petroleum Hydrocarbons by GC/FID

1. All data quality objectives were met.

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Woods Hole Labs makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Woods Hole Labs. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: <u>Manager</u> Date: <u>11/34/06</u>



Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID:

New Bedford Harbor

ETR: 0610188

Case:

301 0-1

SDG:

Lab ID: 0610188-02

Matrix:

N/A Sediment

Associated Blank: SS111506B08

Concentration Units:

μg/Kg

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
10/23/06	10/27/06	11/15/06	11/28/06	79.1	5.36	2	1	TLW

N/A

Parameter	Result
Cl2-BZ#5/#81	5.4
Cl3-BZ#18	12
Cl3-BZ#28/#311	68
Cl4-BZ#44	16
Cl4-BZ#52	42
Cl4-BZ#43/#49'	41
Cl4-BZ#66	29
C15-BZ#101/#841	49
C15-BZ#87	11
C17-BZ#184	0.24 U
Cl5-BZ#105	13
C15-BZ#118	41
C17-BZ#183	1.4
Cl6-BZ#167/#1281	7.7
Cl6-BZ#138/#1631	31
Cl6-BZ#153	30
C17-BZ#170/#1901	3.0
C17-BZ#180	4.5
C17-BZ#182/#1871	3.4
Cl8-BZ#195	0.38
Cl9-BZ#206	0.43
Cl10-BZ#209	0.24 U

¹ = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	82	50-125
CI8-BZ#202-C13	81	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Lab ID: 0610188-03

Project: Client ID:

New Bedford Harbor

ETR: 0610188

302 0-1 N/A

N/A

Associated Blank: SS111506B08

Matrix:

Sediment

Concentration Units: μg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/23/06	10/27/06	11/15/06	11/28/06	59.4	5.63	2	1	TLW

Parameter	Result	
Cl2-BZ#5/#81	46	
Cl3-BZ#18	98	
Cl3-BZ#28/#311	730 E	
Cl4-BZ#44	140	
Cl4-BZ#52	320 E	
Cl4-BZ#43/#491	400	
Cl4-BZ#66	350 E	
Cl5-BZ#101/#84'	480 E	
Cl5-BZ#87	85	
Cl7-BZ#184	0.30 U	
Cl5-BZ#105	110	
Cl5-BZ#118	440 E	
Cl7-BZ#183	13	
Cl6-BZ#167/#128 ¹	67	
Cl6-BZ#138/#1631	280	
Cl6-BZ#153	320 E	
Cl7-BZ#170/#1901	28	
Cl7-BZ#180	42	
Cl7-BZ#182/#1871	34	
C18-BZ#195	3.7	
Cl9-BZ#206	4.2	
Cl10-BZ#209	1.7	

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
C13-BZ#19-C13	73	50-125
C18-BZ#202-C13	77	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project:

Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Client ID:

New Bedford Harbor

ETR: 0610188 Lab ID: 0610188-03E

302 0-1 N/A

Associated Blank: SS111506B08

Matrix: Sediment

Concentration Units: µg/Kg

	Date	Date	Date	Date		Sample	Final	Dilution	
ŀ	Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
Ī	10/23/06	10/27/06	11/15/06	11/28/06	59.4	5.63	2	5	TLW

N/A

Parameter	Result
Cl2-BZ#5/#81	44
Cl3-BZ#18	90
Cl3-BZ#28/#31'	670
Cl4-BZ#44	130
Cl4-BZ#52	290
Cl4-BZ#43/#49'	360
Cl4-BZ#66	310
Cl5-BZ#101/#841	450
Cl5-BZ#87	81
C17-BZ#184	1.5 U
Cl5-BZ#105	100
C15-BZ#118	410
Cl7-BZ#183	15
Cl6-BZ#167/#1281	65
Cl6-BZ#138/#1631	270
Cl6-BZ#153	310
Cl7-BZ#170/#1901	26
C17-BZ#180	43
Cl7-BZ#182/#187 ¹	38
Cl8-BZ#195	4.9
C19-BZ#206	5.1
Cl10-BZ#209	3.0

¹ = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	85	50-125
Cl8-BZ#202-C13	96	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project: Client ID:

Apex Environmental, Inc.

New Bedford Harbor

Lab Code: MA00030

ETR: 0610188

Lab ID: 0610188-04

Case: Matrix: 303 0-1

Sediment

N/A SDG:

N/A

Concentration Units: μg/Kg

Associated Blank: SS111506B08

								P.SS
Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/23/06	10/27/06	11/15/06	11/28/06	38.5	5.89	2	1	TLW

Parameter	Result
Cl2-BZ#5/#81	82
Cl3-BZ#18	160
Cl3-BZ#28/#311	1500 E
Cl4-BZ#44	230
Cl4-BZ#52	580 E
Cl4-BZ#43/#491	840 E
Cl4-BZ#66	680 E
Cl5-BZ#101/#84'	1000 E
Cl5-BZ#87	190
Cl7-BZ#184	0.44 U
Cl5-BZ#105	260
Cl5-BZ#118	980 E
Cl7-BZ#183	31
Cl6-BZ#167/#1281	150
Cl6-BZ#138/#1631	650
Cl6-BZ#153	730 E
Cl7-BZ#170/#190'	67
CI7-BZ#180	100
C17-BZ#182/#1871	82
Cl8-BZ#195	11
Cl9-BZ#206	11
Cl10-BZ#209	4.6

^{1 =} These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	82	50-125
CI8-BZ#202-C13	84	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID: New Bedford Harbor

ETR: 0610188

Case:

303 0-1

Lab ID: 0610188-04E

N/A SDG:

Associated Blank: SS111506B08

Matrix:

Sediment

Concentration Units: µg/Kg

ſ	Date	Date	Date	Date		Sample	Final	Dilution	
	Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
_	10/23/06	10/27/06	11/15/06	11/28/06	38.5	5.89	2	5	TLW

N/A

Parameter	Result
Cl2-BZ#5/#8'	81
Cl3-BZ#18	150
Cl3-BZ#28/#311	1500
Cl4-BZ#44	230
Cl4-BZ#52	570
Cl4-BZ#43/#491	820
Cl4-BZ#66	660
Cl5-BZ#101/#841	1000
C15-BZ#87	220
C17-BZ#184	2.2 U
Cl5-BZ#105	260
Cl5-BZ#118	970
C17-BZ#183	32
Cl6-BZ#167/#1281	160
Cl6-BZ#138/#1631	650
Cl6-BZ#153	740
Cl7-BZ#170/#1901	67
Cl7-BZ#180	100
Cl7-BZ#182/#1871	84
Cl8-BZ#195	10
Cl9-BZ#206	11
Cl10-BZ#209	6.4

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
CI3-BZ#19-C13	86	50-125
CI8-BZ#202-C13	96	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project:

New Bedford Harbor

ETR: 0610188

Client ID:

304 0-1 N/A

SDG:

Lab ID: 0610188-06 Associated Blank: SS111506B08

Matrix:

Sediment

Concentration Units:

μg/Kg

	D-4-	Dete	D-4-		C1-	P! 1	Dilution	, , , , , , , , , , , , , , , , , , ,
Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/23/06	10/27/06	11/15/06	11/28/06	50.8	5.85	2	1	TLW

N/A

Parameter	Result
Cl2-BZ#5/#8'	52
Cl3-BZ#18	170
Cl3-BZ#28/#311	700 E
Cl4-BZ#44	210
Cl4-BZ#52	400 E
Cl4-BZ#43/#491	330
Cl4-BZ#66	340 E
CI5-BZ#101/#841	810 E
Cl5-BZ#87	260
C17-BZ#184	0.34 U
Cl5-BZ#105	250
Cl5-BZ#118	650 E
CI7-BZ#183	20
Cl6-BZ#167/#1281	120
Cl6-BZ#138/#1631	520
Cl6-BZ#153	410 E
C17-BZ#170/#1901	45
C17-BZ#180	67
Cl7-BZ#182/#187 ¹	38
Cl8-BZ#195	5.8
Cl9-BZ#206	6.6
C110-BZ#209	5.6

¹ = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	83	50-125
Cl8-BZ#202-C13	87	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Project: Client ID:

New Bedford Harbor

ETR: 0610188

Case:

304 0-1

Lab ID: 0610188-06E

N/A

N/A

Associated Blank: SS111506B08

Matrix:

Sediment

Concentration Units: μg/Kg

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
10/23/06	10/27/06	11/15/06		50.8	5.85	2	5	TLW

Parameter	Result
Cl2-BZ#5/#81	51
Cl3-BZ#18	160
Cl3-BZ#28/#311	660
Cl4-BZ#44	200
Cl4-BZ#52	380
Cl4-BZ#43/#491	320
Cl4-BZ#66	320
Cl5-BZ#101/#841	780
Cl5-BZ#87	250
Cl7-BZ#184	1.7 U
Cl5-BZ#105	240
CI5-BZ#118	610
CI7-BZ#183	20
Cl6-BZ#167/#128'	120
Cl6-BZ#138/#1631	500
Cl6-BZ#153	390
CI7-BZ#170/#190'	46
C17-BZ#180	65
CI7-BZ#182/#187'	40
Cl8-BZ#195	7.9
Cl9-BZ#206	6.6
Cl10-BZ#209	3.9
•	

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	86	50-125
C18-BZ#202-C13	86	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Project: Client ID: **New Bedford Harbor**

ETR: 0610188

305 0-1

Lab ID: 0610188-08

N/A

N/A

Associated Blank: SS111506B08

Matrix:

Sediment

Concentration Units: μg/Kg

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
10/23/06	10/27/06	11/15/06	11/28/06	38.8	5.66	2	1	TLW

Parameter	Result
C12-BZ#5/#8'	81
Cl3-BZ#18	130
Cl3-BZ#28/#31 ¹	1200 E
Cl4-BZ#44	180
Cl4-BZ#52	460 E
Cl4-BZ#43/#491	670
Cl4-BZ#66	560 E
Cl5-BZ#101/#841	880 E
Cl5-BZ#87	190
C17-BZ#184	0.46 U
Cl5-BZ#105	240
Cl5-BZ#118	840 E
C17-BZ#183	28
Cl6-BZ#167/#1281	140
Cl6-BZ#138/#1631	580
Cl6-BZ#153	630 E
Cl7-BZ#170/#1901	57
Cl7-BZ#180	90
Cl7-BZ#182/#1871	70
Cl8-BZ#195	5.8
Cl9-BZ#206	8.6
Cl10-BZ#209	3.0

^{1 =} These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	77	50-125
Cl8-BZ#202-C13	77	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID: **New Bedford Harbor**

ETR: 0610188

Case:

305 0-1

Associated Blank: SS111506B08

Matrix:

SDG: N/A Sediment

Concentration Units:

Lab ID: 0610188-08E

	N	latrix: Sed	iment			Co	ncentration Un	its: μg/Kg
Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/23/06	10/27/06	11/15/06	11/28/06	38.8	5.66	2	5	TLW

N/A

Parameter	Result
Cl2-BZ#5/#8 ¹	78
Cl3-BZ#18	130
Cl3-BZ#28/#311	1200
Cl4-BZ#44	180
Cl4-BZ#52	450
Cl4-BZ#43/#491	660
Cl4-BZ#66	540
Cl5-BZ#101/#841	880
Cl5-BZ#87	190
Cl7-BZ#184	2.3 U
Cl5-BZ#105	230
Cl5-BZ#118	830
C17-BZ#183	27
Cl6-BZ#167/#1281	140
Cl6-BZ#138/#1631	580
Cl6-BZ#153	630
C17-BZ#170/#1901	59
CI7-BZ#180	90
CI7-BZ#182/#187 ¹	73
CI8-BZ#195	13
C19-BZ#206	8.3
Cl10-BZ#209	3.1

^{1 =} These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	85	50-125
Cl8-BZ#202-C13	93	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Client ID:

Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Lab ID: 0610188-09

Project:

New Bedford Harbor

ETR: 0610188

Case:

306 0-1 N/A

N/A

Associated Blank: SS111506B08

Matrix:

Sediment

Concentration Units: μg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/23/06	10/27/06	11/15/06	11/28/06	50.1	5.68	2	1	TLW

Parameter	Result
Cl2-BZ#5/#81	63
Cl3-BZ#18	120
Cl3-BZ#28/#311	1100 E
Cl4-BZ#44	200
Cl4-BZ#52	450 E
Cl4-BZ#43/#49 ¹	560 E
Cl4-BZ#66	620 E
CI5-BZ#101/#841	820 E
CI5-BZ#87	180
CI7-BZ#184	0.35 U
Cl5-BZ#105	230
Cl5-BZ#118	770 E
Cl7-BZ#183	24
Cl6-BZ#167/#1281	120
Cl6-BZ#138/#1631	520
Cl6-BZ#153	530 E
C17-BZ#170/#1901	54
C17-BZ#180	79
C17-BZ#182/#187 ¹	59
Cl8-BZ#195	6.7
Cl9-BZ#206	7.3
Cl10-BZ#209	4.0

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
C13-BZ#19-C13	81	50-125
C18-BZ#202-C13	87	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Lab ID: 0610188-09E

Project: Client ID:

New Bedford Harbor

ETR: 0610188

306 0-1 N/A

Associated Blank: SS111506B08

Matrix:

Sediment

Concentration Units: μg/Kg

	Date	Date	Date	Date		Sample	Final	Dilution	
	Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
ĺ	10/23/06	10/27/06	11/15/06	11/28/06	50.1	5.68	2	5	TLW

N/A

Parameter	Result
Cl2-BZ#5/#81	62
Cl3-BZ#18	130
Cl3-BZ#28/#311	1100
Cl4-BZ#44	210
Cl4-BZ#52	450
Cl4-BZ#43/#491	570
Cl4-BZ#66	620
Cl5-BZ#101/#841	840
C15-BZ#87	180
Cl7-BZ#184	1.8 U
CI5-BZ#105	220
Cl5-BZ#118	760
CI7-BZ#183	26
Cl6-BZ#167/#128'	130
Cl6-BZ#138/#163'	520
Cl6-BZ#153	540
Cl7-BZ#170/#1901	51
C17-BZ#180	80
Cl7-BZ#182/#1871	60
Cl8-BZ#195	6.8
C19-BZ#206	5.6
Cl10-BZ#209	4.8

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	89	50-125
Cl8-BZ#202-C13	97	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID: New Bedford Harbor

ETR: 0610188

Case:

307A 0-1

Lab ID: 0610188-11

SDG: N/A N/A

Associated Blank: SS111506B08

Matrix:

Sediment

Concentration Units: μg/Kg

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
10/23/06	10/27/06	11/15/06	11/28/06	57.7	5.60	2	1	TLW
	Pars	meter			I	Result		

Parameter	Result
Cl2-BZ#5/#81	87
Cl3-BZ#18	300 E
Cl3-BZ#28/#311	1500 E
Cl4-BZ#44	370 E
Cl4-BZ#52	570 E
Cl4-BZ#43/#491	620 E
Cl4-BZ#66	740 E
Cl5-BZ#101/#841	920 E
Cl5-BZ#87	270 E
Cl7-BZ#184	0.31 U
Cl5-BZ#105	290 E
Cl5-BZ#118	760 E
Cl7-BZ#183	29
Cl6-BZ#167/#1281	130
Cl6-BZ#138/#1631	540 E
Cl6-BZ#153	460 E
Cl7-BZ#170/#1901	54
C17-BZ#180	100
CI7-BZ#182/#187'	66
Cl8-BZ#195	9.2
CI9-BZ#206	19
CI10-BZ#209	3.8

¹ = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	81	50-125
C18-BZ#202-C13	86	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:
Project:
Client ID:

Date

Received

Date

Collected

Apex Environmental, Inc.

SDG:

Date

Analyzed

New Bedford Harbor

Sample

Amount (g)

Final

Volume (ml)

Lab Code: MA00030

ETR: 0610188

Lab ID: 0610188-11E

Associated Blank: SS111506B08

Case:

307A 0-1

N/A

N/A

Percent Solid

Concentration Units:

Dilution

Factor

μg/Kg

Analyst

TLW

Matrix: Sediment

Date

Extracted

10/23/06	10/27/06	11/15/06	11/28/06	57.7	5.60	2	5	
	Para	ameter		Re	esult			
	C12-	BZ#5/#81			82			
		BZ#18			280			
	-	BZ#28/#31'			-	1400		
	C14-	BZ#44				360		
	C14-	BZ#52				550		
	C14-	BZ#43/#491				590		
	C14-	BZ#66				710		
	C15-	BZ#101/#841			890			
	C15-	BZ#87				260		
	C17-	BZ#184				1.6 U		
	C15-	BZ#105				270		
	<u>C15-</u>	BZ#118				710	•	
	<u>C17-</u>	BZ#183				29		
	<u>Cl6-</u>	BZ#167/#1281				120		
		BZ#138/#163 ¹				510		
Cl6-BZ#153						440		
		BZ#170/#190 ¹				52		
C17-BZ#180					97			
C17-BZ#182/#187 ¹					64			
	Cl8-BZ#195					11		
	<u>C19-</u>	BZ#206						

¹ = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	90	50-125
Cl8-BZ#202-C13	89	50-125

Cl10-BZ#209

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

4.3



Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Project: Client ID: New Bedford Harbor

ETR: 0610188

Case:

308 0-1

Lab ID: 0610188-13

Associated Blank: SS111506B08

Matrix:

N/A Sediment

Concentration Units:

μg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/23/06	10/27/06	11/15/06	11/28/06	71.1	5.88	2	1	TLW

N/A

Parameter	Result
Cl2-BZ#5/#81	14
Cl3-BZ#18	33
Cl3-BZ#28/#311	190
Cl4-BZ#44	39
Cl4-BZ#52	84
C14-BZ#43/#491	94
Cl4-BZ#66	84
Cl5-BZ#101/#841	120
Cl5-BZ#87	32
Cl7-BZ#184	0.24 U
Cl5-BZ#105	36
Cl5-BZ#118	110
Cl7-BZ#183	4.1
Cl6-BZ#167/#1281	20
Cl6-BZ#138/#1631	80
Cl6-BZ#153	80
Cl7-BZ#170/#1901	8.3
Cl7-BZ#180	12
C17-BZ#182/#1871	9.6
Cl8-BZ#195	1.1
Cl9-BZ#206	1.6
Cl10-BZ#209	1.1

^{1 =} These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	86	50-125
C18-BZ#202-C13	90	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project:

Apex Environmental, Inc. **New Bedford Harbor**

SDG:

Lab Code: MA00030

Lab ID: 0610188-15

ETR: 0610188

Client ID: Case:

309 0-1 N/A

N/A

Associated Blank: SS111506B08

Matrix:

Sediment

Concentration Units:

μg/Kg

									100	
	Date	Date	Date	Date		Sample	Final	Dilution		
	Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst	
:	10/24/06	10/27/06	11/15/06	11/28/06	70.1	5.37	2	1	TLW	

C12-BZ#5/#8¹ 26 C13-BZ#18 57 C13-BZ#28/#31¹ 330 C14-BZ#444 73 C14-BZ#52 160 C14-BZ#43/#49¹ 180 C14-BZ#66 140 C15-BZ#101/#84¹ 240 C15-BZ#184 0.27 U C15-BZ#185 65 C15-BZ#118 200 C17-BZ#183 7.2 C16-BZ#138/#163¹ 150 C16-BZ#138/#163¹ 150 C16-BZ#153 140 C17-BZ#170/#190¹ 15 C17-BZ#180 24 C17-BZ#182/#187¹ 16	Parameter	Result
Cl3-BZ#28/#31¹ 330 Cl4-BZ#44 73 Cl4-BZ#52 160 Cl4-BZ#43/#49¹ 180 Cl4-BZ#66 140 Cl5-BZ#101/#84¹ 240 Cl5-BZ#87 61 Cl7-BZ#184 0.27 U Cl5-BZ#105 65 Cl5-BZ#118 200 Cl7-BZ#183 7.2 Cl6-BZ#167/#128¹ 36 Cl6-BZ#138/#163¹ 150 Cl6-BZ#153 140 Cl7-BZ#170/#190¹ 15 Cl7-BZ#180 24 Cl7-BZ#182/#187¹ 16	Cl2-BZ#5/#8'	26
Cl4-BZ#44 73 Cl4-BZ#52 160 Cl4-BZ#43/#49¹ 180 Cl4-BZ#66 140 Cl5-BZ#101/#84¹ 240 Cl5-BZ#87 61 Cl7-BZ#184 0.27 U Cl5-BZ#105 65 Cl5-BZ#118 200 Cl7-BZ#183 7.2 Cl6-BZ#167/#128¹ 36 Cl6-BZ#138/#163¹ 150 Cl6-BZ#153 140 Cl7-BZ#180 24 Cl7-BZ#182/#187¹ 16	Cl3-BZ#18	57
Cl4-BZ#52 160 Cl4-BZ#43/#49¹ 180 Cl4-BZ#66 140 Cl5-BZ#101/#84¹ 240 Cl5-BZ#87 61 Cl7-BZ#184 0.27 U Cl5-BZ#105 65 Cl5-BZ#118 200 Cl7-BZ#183 7.2 Cl6-BZ#167/#128¹ 36 Cl6-BZ#138/#163¹ 150 Cl6-BZ#153 140 Cl7-BZ#180 24 Cl7-BZ#182/#187¹ 16	Cl3-BZ#28/#311	330
Cl4-BZ#43/#49¹ 180 Cl4-BZ#66 140 Cl5-BZ#101/#84¹ 240 Cl5-BZ#87 61 Cl7-BZ#184 0.27 U Cl5-BZ#105 65 Cl5-BZ#118 200 Cl7-BZ#183 7.2 Cl6-BZ#167/#128¹ 36 Cl6-BZ#138/#163¹ 150 Cl6-BZ#153 140 Cl7-BZ#170/#190¹ 15 Cl7-BZ#180 24 Cl7-BZ#182/#187¹ 16	Cl4-BZ#44	73
Cl4-BZ#66 140 Cl5-BZ#101/#84¹ 240 Cl5-BZ#87 61 Cl7-BZ#184 0.27 U Cl5-BZ#105 65 Cl5-BZ#118 200 Cl7-BZ#183 7.2 Cl6-BZ#167/#128¹ 36 Cl6-BZ#138/#163¹ 150 Cl6-BZ#153 140 Cl7-BZ#170/#190¹ 15 Cl7-BZ#180 24 Cl7-BZ#182/#187¹ 16	Cl4-BZ#52	160
Cl5-BZ#101/#84¹ 240 Cl5-BZ#87 61 Cl7-BZ#184 0.27 U Cl5-BZ#105 65 Cl5-BZ#118 200 Cl7-BZ#183 7.2 Cl6-BZ#167/#128¹ 36 Cl6-BZ#138/#163¹ 150 Cl6-BZ#153 140 Cl7-BZ#170/#190¹ 15 Cl7-BZ#180 24 Cl7-BZ#182/#187¹ 16	Cl4-BZ#43/#491	180
Cl5-BZ#87 61 Cl7-BZ#184 0.27 U Cl5-BZ#105 65 Cl5-BZ#118 200 Cl7-BZ#183 7.2 Cl6-BZ#167/#128¹ 36 Cl6-BZ#138/#163¹ 150 Cl6-BZ#153 140 Cl7-BZ#170/#190¹ 15 Cl7-BZ#180 24 Cl7-BZ#182/#187¹ 16	Cl4-BZ#66	140
C17-BZ#184 0.27 U C15-BZ#105 65 C15-BZ#118 200 C17-BZ#183 7.2 C16-BZ#167/#1281 36 C16-BZ#138/#1631 150 C16-BZ#153 140 C17-BZ#170/#1901 15 C17-BZ#180 24 C17-BZ#182/#1871 16	Cl5-BZ#101/#841	240
CI5-BZ#105 65 CI5-BZ#118 200 CI7-BZ#183 7.2 CI6-BZ#167/#1281 36 CI6-BZ#138/#1631 150 CI6-BZ#153 140 C17-BZ#170/#1901 15 C17-BZ#180 24 C17-BZ#182/#1871 16	Cl5-BZ#87	61
Cl5-BZ#118 200 Cl7-BZ#183 7.2 Cl6-BZ#167/#128¹ 36 Cl6-BZ#138/#163¹ 150 Cl6-BZ#153 140 Cl7-BZ#170/#190¹ 15 Cl7-BZ#180 24 Cl7-BZ#182/#187¹ 16	CI7-BZ#184	0.27 U
Cl7-BZ#183 7.2 Cl6-BZ#167/#128¹ 36 Cl6-BZ#138/#163¹ 150 Cl6-BZ#153 140 Cl7-BZ#170/#190¹ 15 Cl7-BZ#180 24 Cl7-BZ#182/#187¹ 16	Cl5-BZ#105	65
Cl6-BZ#167/#128¹ 36 Cl6-BZ#138/#163¹ 150 Cl6-BZ#153 140 Cl7-BZ#170/#190¹ 15 Cl7-BZ#180 24 Cl7-BZ#182/#187¹ 16	Cl5-BZ#118	200
C16-BZ#138/#163¹ 150 C16-BZ#153 140 C17-BZ#170/#190¹ 15 C17-BZ#180 24 C17-BZ#182/#187¹ 16	Cl7-BZ#183	7.2
Cl6-BZ#153 140 Cl7-BZ#170/#190¹ 15 Cl7-BZ#180 24 Cl7-BZ#182/#187¹ 16	Cl6-BZ#167/#1281	36
C17-BZ#170/#190¹ 15 C17-BZ#180 24 C17-BZ#182/#187¹ 16	Cl6-BZ#138/#1631	150
C17-BZ#180 24 C17-BZ#182/#187 ¹ 16	Cl6-BZ#153	140
Cl7-BZ#182/#187 ¹ 16	C17-BZ#170/#1901	15
	C17-BZ#180	24
010 07/1105	C17-BZ#182/#1871	16
CI8-BZ#195 2.4	Cl8-BZ#195	2.4
C19-BZ#206 2.8	C19-BZ#206	2.8
C110-BZ#209 2.0	C110-BZ#209	2.0

^{&#}x27; = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
CI3-BZ#19-C13	82	50-125
CI8-BZ#202-C13	89	50-125

N/A - Not Applicable

Client:

Apex Environmental, Inc. **New Bedford Harbor**

Lab Code: MA00030

Project: Client ID:

ETR: 0610188

B s Case:

310 0-1 N/A

Sediment

Lab ID: 0610188-16

Matrix:

SDG: N/A

Associated Blank: SS111506B08

Concentration Units:

μg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/24/06	10/27/06	11/15/06	11/28/06	73.3	5.75	2	1	TLW

Parameter	Result
C12-BZ#5/#81	85
Cl3-BZ#18	260 E
Cl3-BZ#28/#311	1100 E
Cl4-BZ#44	280 E
Cl4-BZ#52	420 E
Cl4-BZ#43/#491	420 E
Cl4-BZ#66	460 E
Cl5-BZ#101/#841	700 E
Cl5-BZ#87	220 E
C17-BZ#184	0.24 U
C15-BZ#105	210 E
C15-BZ#118	530 E
Cl7-BZ#183	19
Cl6-BZ#167/#128'	98
Cl6-BZ#138/#1631	420 E
Cl6-BZ#153	350 E
Cl7-BZ#170/#190'	42
Cl7-BZ#180	65
CI7-BZ#182/#187'	46
Cl8-BZ#195	6.3
Cl9-BZ#206	5.4
Cl10-BZ#209	2,8

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	81	50-125
C18-BZ#202-C13	84	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Lab Code: MA00030 ETR: 0610188

Project: Client ID: New Bedford Harbor

Case:

310 0-1 N/A

Sediment

Lab ID: 0610188-16E

Associated Blank: SS111506B08

Matrix:

SDG:

Concentration Units:

μg/Kg

			_						1.0 - 0
[Date	Date	Date	Date		Sample	Final	Dilution	
	Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
	10/24/06	10/27/06	11/15/06	11/28/06	73.3	5.75	2	5	TLW

N/A

Parameter	Result
Cl2-BZ#5/#81	86
Cl3-BZ#18	260
Cl3-BZ#28/#311	1100
Cl4-BZ#44	290
Cl4-BZ#52	420
Cl4-BZ#43/#491	420
Cl4-BZ#66	480
Cl5-BZ#101/#84'	730
Cl5-BZ#87	230
C17-BZ#184	1.2 U
Cl5-BZ#105	220
Cl5-BZ#118	540
Cl7-BZ#183	20
Cl6-BZ#167/#128 ¹	100
Cl6-BZ#138/#1631	430
Cl6-BZ#153	360
<u>Cl7-BZ#170/#190¹</u>	44
Cl7-BZ#180	67
Cl7-BZ#182/#187 ¹	49
Cl8-BZ#195	7.6
Cl9-BZ#206	5.3
Cl10-BZ#209	3.4

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
C13-BZ#19-C13	83	50-125
C18-BZ#202-C13	99	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID:

New Bedford Harbor

ETR: 0610188

Case:

329 0-1

Lab ID: 0610188-18

N/A SDG:

Associated Blank: SS111506B08

Matrix: Sediment

Concentration Units: μg/Kg

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
10/23/06	10/27/06	11/15/06	11/28/06	48.6	5.89	2	1	TLW
Parameter				F	Result			

N/A

Parameter	Result
Cl2-BZ#5/#81	49
Cl3-BZ#18	92
Cl3-BZ#28/#311	600 E
Cl4-BZ#44	130
Cl4-BZ#52	260
Cl4-BZ#43/#491	290
Cl4-BZ#66	230
Cl5-BZ#101/#84'	370
Cl5-BZ#87	88
Cl7-BZ#184	0.35 U
CI5-BZ#105	98
Cl5-BZ#118	310 E
Cl7-BZ#183	18
Cl6-BZ#167/#1281	57
Cl6-BZ#138/#1631	240
C16-BZ#153	260
Cl7-BZ#170/#190 ¹	39
C17-BZ#180	68
Cl7-BZ#182/#187'	46
CI8-BZ#195	8.4
Cl9-BZ#206	7.5
Cl10-BZ#209	2.1

^{1 =} These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	81	50-125
C18-BZ#202-C13	87	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project:

Apex Environmental, Inc.

Lab Code: MA00030

Client ID:

New Bedford Harbor

ETR: 0610188

Lab ID: 0610188-18E

329 0-1 N/A SDG: N/A

Associated Blank: SS111506B08

Matrix:

Sediment

Concentration Units: μg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	:
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/23/06	10/27/06	11/15/06	11/28/06	48.6	5.89	2	2	TLW

Parameter	Result
Cl2-BZ#5/#81	48
Cl3-BZ#18	87
Cl3-BZ#28/#311	540
Cl4-BZ#44	120
C14-BZ#52	260
Cl4-BZ#43/#491	290
Cl4-BZ#66	220
CI5-BZ#101/#84'	370
Cl5-BZ#87	90
Cl7-BZ#184	0.70 U
Cl5-BZ#105	97
Cl5-BZ#118	310
C17-BZ#183	18
Cl6-BZ#167/#1281	57
CI6-BZ#138/#1631	240
Cl6-BZ#153	260
CI7-BZ#170/#1901	37
C17-BZ#180	69
Cl7-BZ#182/#187 ¹	46
Cl8-BZ#195	7.3
C19-BZ#206	7.3
C110-BZ#209	1.7

^{1 =} These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	81	50-125
Cl8-BZ#202-C13	84	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID: **New Bedford Harbor**

ETR: 0610188

Case:

332A 0-1

Lab ID: 0610188-19

N/A SDG:

Associated Blank: SS111506B08

Matrix:

Sediment

Concentration Units:

μg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/23/06	10/27/06	11/15/06	11/28/06	95.9	5.36	2	1	TLW

N/A

Parameter	Result
Cl2-BZ#5/#81	1.5
Cl3-BZ#18	2.8
Cl3-BZ#28/#31'	14
Cl4-BZ#44	3.9
CI4-BZ#52	7.4
Cl4-BZ#43/#491	7.5
Cl4-BZ#66	5.4
Cl5-BZ#101/#841	11
Cl5-BZ#87	3.0
Cl7-BZ#184	0.19 U
C15-BZ#105	3.0
Cl5-BZ#118	8.1
C17-BZ#183	0.69
Cl6-BZ#167/#1281	1.9
Cl6-BZ#138/#1631	7.4
Cl6-BZ#153	7.6
C17-BZ#170/#1901	1.2
C17-BZ#180	2.6
Cl7-BZ#182/#1871	1.9
CI8-BZ#195	0.74
Cl9-BZ#206	0.19 U
Cl10-BZ#209	0.30

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	68	50-125
Cl8-BZ#202-C13	74	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID:

New Bedford Harbor

ETR: 0610188 Lab ID: 0610188-20

330 0-1

Associated Blank: SS111506B08

Matrix:

N/A SDG: Sediment

Concentration Units: ug/Kg

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/23/06	10/27/06	11/15/06	11/28/06	35.3	5.77	2	1	TLW

N/A

Parameter	Result
Cl2-BZ#5/#81	130
Cl3-BZ#18	290
Cl3-BZ#28/#31 ¹	1400 E
Cl4-BZ#44	390
Cl4-BZ#52	560 E
Cl4-BZ#43/#491	600
Cl4-BZ#66	590 E
CI5-BZ#101/#841	900 E
Cl5-BZ#87	250
C17-BZ#184	0.49 U
C15-BZ#105	260
CI5-BZ#118	690 E
Cl7-BZ#183	57
Cl6-BZ#167/#1281	140
Cl6-BZ#138/#1631	600
Cl6-BZ#153	570 E
Cl7-BZ#170/#1901	120
Cl7-BZ#180	220
Cl7-BZ#182/#187 ¹	130
Cl8-BZ#195	23
Cl9-BZ#206	21
Cl10-BZ#209	4.8

^{1 =} These two Congeners are reported as a co-eluting pair.

_		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	67	50-125
C18-BZ#202-C13	69	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID:

New Bedford Harbor

ETR: 0610188

Case:

330 0-1

Lab ID: 0610188-20E

Matrix:

N/A SDG:

Associated Blank: SS111506B08

Sediment

μg/Kg **Concentration Units:**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
10/23/06	10/27/06	11/15/06	11/29/06	35.3	5.77	2	5	TLW

N/A

Parameter	Result
C12-BZ#5/#81	140
Cl3-BZ#18	260
Cl3-BZ#28/#31 ¹	1300
Cl4-BZ#44	340
Cl4-BZ#52	600
Cl4-BZ#43/#491	620
Cl4-BZ#66	600
Cl5-BZ#101/#84'	930
C15-BZ#87	260
Cl7-BZ#184	2.4 U
Cl5-BZ#105	250
Cl5-BZ#118	680
C17-BZ#183	56
Cl6-BZ#167/#128'	140
Cl6-BZ#138/#1631	580
Cl6-BZ#153	570
Cl7-BZ#170/#190'	110
CI7-BZ#180	210
Cl7-BZ#182/#187 ¹	140
Cl8-BZ#195	26
Cl9-BZ#206	22
C110-BZ#209	6.3

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
CI3-BZ#19-C13	74	50-125
CI8-BZ#202-C13	74	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Blank PCB by GC/MS

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID:

New Bedford Harbor

ETR: 0610188

Case:

Blank N/A

SDG:

Lab ID: SS111506B08

Associated Blank: N/A

Matrix:

Sediment

Concentration Units: μg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
N/A	N/A	11/15/06	11/27/06	100	5.00	2	1	TLW

N/A

Parameter	Result
C12-BZ#5/#8'	0.40 U
Cl3-BZ#18	0.20 U
Cl3-BZ#28/#311	0.40 U
Cl4-BZ#44	0.20 U
Cl4-BZ#52	0.20 U
C14-BZ#43/#491	0.40 U
C14-BZ#66	0.20 U
C15-BZ#101/#841	0.40 U
C15-BZ#87	0.20 U
C17-BZ#184	0.20 U
C15-BZ#105	0.20 U
Cl5-BZ#118	0.20 U
C17-BZ#183	0.20 U
Cl6-BZ#167/#1281	0.40 U
Cl6-BZ#138/#1631	0.40 U
Cl6-BZ#153	0.20 U
CI7-BZ#170/#1901	0.40 U
Cl7-BZ#180	0.20 U
Cl7-BZ#182/#187 ¹	0.40 U
Cl8-BZ#195	0.20 U
Cl9-BZ#206	0.20 U
Cl10-BZ#209	0.20 U

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	83	50-125
Cl8-BZ#202-C13	75	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Laboratory Control Summary PCB by GC/MS



Apex Environmental, Inc. **New Bedford Harbor**

ETR: 0610188 Lab ID: See Below

Lab Code: MA00030

Case:

Laboratory Control Sample N/A SDG: N/A

Associated Blank: SS111506B08

Sediment Matrix:

Concentration Units:

Date Collected Date Received		Date Extracted			Percent Sol	Analyst			
N/A	N/A	N/A		11/15/06		100		TLW	
Lab ID:	SS111506E	308	SS11	SS111506LCS05 S		SS111506LCSD05			
	Blank			LCS		LCSD		RPD % Recovery	
Parameter	Conc.		Conc.	% Recovery	Conc.	% Recovery	% RPD	Limit _	Limits
Cl2-BZ#5/#81	0.40	U	6.2	78	6.4	79	2	50	40-140
Cl3-BZ#18	0.20	U	6.3	78	6.4	80	2	50	40-140
Cl3-BZ#28/#311	0.40	U	12	76	12	77	1	50	40-140
Cl4-BZ#44	0.20	U	5.6	70	5.8	72	2	50	40-140
C14-BZ#52	0.20	U	5.8	73	5.9	74	1	50	40-140
CI4-BZ#43/#491	0.40	U	6.5	81	6.8	85	4	50	40-140
C14-BZ#66	0.20	U	5.2	65	6.0	75	14	50	40-140
Cl5-BZ#101/#841	0.40	U	6.2	77	6.2	78	1	50	40-140
C15-BZ#87	0.20	U	4.8	60	4.9	61	1	50	40-140
Cl5-BZ#105	0.20	U	4.8	60	4.7	59	2	50	40-140
Cl5-BZ#118	0.20	U	5.1	63	5.0	62	2	50	40-140
C17-BZ#183	0.20	U	5.6	70	5.5	69	0	50	40-140
Cl6-BZ#167/#1281	0.40	U	11	66	10	66	1	50	40-140
Cl6-BZ#138/#1631	0.40	U	4.4	54	4.4	55	1	50	40-140
Cl6-BZ#153	0.20	U	5.4	68	5.4	68	0	50	40-140
Cl7-BZ#170/#1901	0.40	U	4.6	57	4.5	56	2	50	40-140
Cl7-BZ#180	0.20	U	6.4	80	6.6	83	4	50	40-140
C17-BZ#182/#1871	0.40	U	5.9	74	6.0	75	2	50	40-140
Cl8-BZ#195	0.20	U	5.6	69	5.4	68	2	50	40-140
Cl9-BZ#206	0.20	U	5.5	69	5.6	70	1	50	40-140
Cl10-BZ#209	0.20	U	5.5	68	5.4	68	1	50	40-140

^{1 =} These two Congeners are reported as a co-eluting pair.

			Acceptance
Surrogate	% Rec	covery	Range (%)
Cl3-BZ#19-C13	84	86	50-125
Cl8-BZ#202-C13	82	81	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result. 11/30/06 13:08

PCB Congeners and Homologs by GC/MS-S Updated 9/02	IM Data	Review Checklist ETR#: 000188	
Method 680 (modified)			ge 1 of 2
State and in Date - 11/15/2000	BlockI		
falorment D: BNA# 5	TO SALE		,
and the same of 11/27/do		est Almest	
Drive de Cines			
Review Liens A. Time	A Tes 7	对于"这个"这个"的"这个"的"这个"的"是一个"的"一个"。	Loyal
Did PFTBA meet the Tune criteria before the ICAL? Did DFTPP meet SW-846 criteria before every CCV? Did DFTPP meet Max. Sensitivity criteria before every CCV?		PFTBA Date(s): Circle tuning method(s) used (at left).	
A. halle Galibration Verification	4		
1. Has an Initial Calibration Checklist been completed for all ICALs? (Note any QC snomalies).			
2. Was the correct ICAL method used for sample quantitation? (Check "Quant File ID" and compare w/Method(s) above). If wrong, data needs to be reprocessed w/ the correct Method(s) above.			
C. Continuing Chilip ration Westitation	3 3 4		
Has a CCV Checklist been completed for each Analytical Batch? (Note any QC anomalies).	12.	Notes:	
2. Were all samples injected between CCVs that were 12 hours apart (including ending CCV)?			
D: ScholeRésults			1/-
1. Was the correct analysis performed? Is all paperwork present? (Check ETR worksheet & comments).	V	chent will do summation. Veponex NOAM 22 Med had p	J-TIN
2. Is the header information correct? (If not, 2 nd bring data package back to the Lab for corrections.)	1/	reported NOTH ST RET INST	100
3. Sample analyses done within preparation and analytical holding time (HT)? If No. itst samples and reasons: [P.rep.=Aqu7 days; Soil -14 days; Analytical = 40 days] Sample(s) Reason(s) HT		1. HT had expired before receipt of sample(s)Narrate 2. Sample received with < 3 days left for extraction. 3. Client requested analysis after HT expired.*-Narrate 4. Re-extraction done after HT expiredNarrate 5. Other:	
4. Are surrogates within 50-125% R? If No, list Samples/Sturrogates/Reasons: Sample(s) Surrogate(s) Reason(s)	V	6. Surrogate %R outside QC limits due to matrix effect. MS/MSD surr. %R demonstrated same effect. Narrate 7. Surrogate %R outside QC limits due to matrix effect since re-extraction/re-analysis demonstrated the same effect. Report original and Narrate.	
All self-st		8. Surrogate %R outside QC limits due to obvious matrix interferences. Explain/Narrate: (Analyst has confirmed w/ Section Head.) 9. Surrogate %R outside QC limits; however, there wasn't	
		10. Surrogate %R outside QC limits; re-extraction outside HT; both sets of data are reported. Narrate PM notified. 11. Surrogate %R outside QC limits; however, at the client's request, the data were flagged and released	
		without further investigation. *-Narrate 12. Surrogates diluted out.	
5. Is largest compound diluted to upper half of calibration range? If ao, its sample(s). Sample(s) Dilution(s) Reason(s)		13. At the client's request, the sample was analyzed with minimum dilution even though some compounds were outside of calibration range. *-Narrate 14. Largest compound diluted to acceptable concentration based on normal sample dilution volumes. 15. Sample showed matrix inhomogeneity. Duplicate	
		snalysis (or Re-extraction) was within calibration range, both analyses are reported. Narrate 16. Other:	

Client: Project:

ient: Apex Environmental, Inc.

New Bedford Harbor

Lab Code: MA00030

ETR: 0610188

Lab ID: 0610188-02

Client ID: Case: Matrix:

Parameter

301 0-1 N/A

Sediment

SDG:

N/A

Associated Blank: ES111506B10

Concentration Units: µg/Kg

Result

Date Collected	Date Received	Date Extracted	Percent Solid	Sample Amount (g)	Fraction	Date Analyzed	Final Volume (ml)	Dilution Factor	Analyst
10/02/06	10/27/06	11/15/06	70.1	10.47	Aromatic	11/22/06	1	1	JBS
10/23/06	10/27/06	11/15/06	79.1	10.47	Aliphatic	11/22/06	1	1	JBS

C ₉ -C ₁₈ Aliphatics ¹	3600	U
C ₁₉ -C ₃₆ Aliphatics ¹	34000	
C ₁₁ -C ₂₂ Aromatics ^{1,2}	12000	
Unadjusted C ₁₁ -C ₂₂ Aromatics ¹	12000	
Naphthalene	600	U
2-Methylnaphthalene	600	U
Acenaphthylene	600	U
Acenaphthene	600	U
Fluorene	600	U
Phenanthrene	600	U
Anthracene	600	U
Fluoranthene	600	U
Pyrene	600	U
Benzo(a)anthracene	600	U
Chrysene	600	U
Benzo(b)fluoranthene	600	U
Benzo(k)fluoranthene	600	U
Benzo(a)pyrene	600	U
Indeno(1,2,3-cd)pyrene ³	1200	U
Dibenzo(a,h)anthracene ³	1200	U
Benzo(g,h,i)perylene	600	U

^{3 =} Values reported reflect their sum

Extraction Surrogate	% Recovery	Acceptance Range (%)
5-alpha Androstane	67	40-140
ortho-Terphenyl	74	40-140
Fractionation Surrogate		
Biphenyl	85	40-140
2-Fluorobiphenyl	83	40-140

N/A - Not Applicable

¹ = Range concentration excludes the concentration of any surrogate(s) and/or internal standards eluting in that range.

² = C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

Client:

Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Project:

New Bedford Harbor

ETR: 0610188

Client ID:

307A 0-1

Lab ID: 0610188-11

N/A

N/A

Associated Blank: ES111506B10

Matrix:

Sediment

Concentration Units: µg/Kg

Date Collected	Date Received	Date Extracted	Percent Solid	Sample Amount (g)	Fraction	Date Analyzed	Final Volume (ml)	Dilution Factor	Analyst
10/23/06 1	10/27/06	/27/06 11/15/06	57.7	10.43	Aromatic	11/22/06	1	1	JBS
	10/27/06				Aliphatic	11/22/06	1	1	JBS
Parameter					Resu	lt			

C ₉ -C ₁₈ Aliphatics ¹	300000
C ₁₉ -C ₃₆ Aliphatics ¹	1300000
C ₁₁ -C ₂₂ Aromatics ^{1,2}	310000
Unadjusted C ₁₁ -C ₂₂ Aromatics ¹	320000
Naphthalene	830 U
2-Methylnaphthalene	830 U
Acenaphthylene	830 U
Acenaphthene	830 U
Fluorene	830 U
Phenanthrene	830 U
Anthracene	830 U
Fluoranthene	1000
Pyrene	2000
Benzo(a)anthracene	990
Chrysene	890
Benzo(b)fluoranthene	1300
Benzo(k)fluoranthene	830 U
Benzo(a)pyrene	920
Indeno(1,2,3-cd)pyrene ³	1700 U
Dibenzo(a,h)anthracene ³	1700 U
Benzo(g,h,i)perylene	830 U

³ = Values reported reflect their sum.

Extraction Surrogate	% Recovery	Acceptance Range (%)		
5-alpha Androstane	73	40-140		
ortho-Terphenyl	69	40-140		
Fractionation Surrogate				
Biphenyl	89	40-140		
2-Fluorobiphenyl	86	40-140		

N/A - Not Applicable

⁼ Range concentration excludes the concentration of any surrogate(s) and/or internal standards eluting in that range.

² = C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.



Client:

Apex Environmental, Inc.

Lab Code: MA00030

ETR: 0610188

Sediment

New Bedford Harbor 309 0-1

Result

Lab ID: 0610188-15 Associated Blank: ES111506B10

Matrix:

Parameter

N/A SDG:

N/A

Concentration Units:

									1.6/6
Date	Date	Date	Percent	Sample		Date	Final	Dilution	
Collected	Received	Extracted	Solid	Amount (g)	Fraction	Analyzed	Volume (ml)	Factor	Analyst
10/24/06	10/27/06	11/15/06	70.1	10.02	Aromatic	11/27/06	1	11	JBS
10/24/06 10/27/06	10/2//06	06 11/15/06	70.1	10,92	Aliphatic	11/27/06	1	1	ЛВS

C ₉ -C ₁₈ Aliphatics ¹	48000	
C ₁₉ -C ₃₆ Aliphatics ¹	300000	
C ₁₁ -C ₂₂ Aromatics ^{1,2}	100000	
Unadjusted C ₁₁ -C ₂₂ Aromatics ¹	110000	
Naphthalene	650	U
2-Methylnaphthalene	650	U
Acenaphthylene	650	U
Acenaphthene	650	U
Fluorene	650	U
Phenanthrene	650	U
Anthracene	650	U
Fluoranthene	860	
Pyrene	1800	
Benzo(a)anthracene	650	U
Chrysene	650	U
Benzo(b)fluoranthene	650	U
Benzo(k)fluoranthene	650	U
Benzo(a)pyrene	650	U
Indeno(1,2,3-cd)pyrene ³	1300	U
Dibenzo(a,h)anthracene ³	1300	U
Benzo(g,h,i)perylene	650	U

3 = Values reported reflect their sum

- values reported reflect i	Acceptance		
Extraction Surrogate	% Recovery	Range (%)	
5-alpha Androstane	77	40-140	
ortho-Terphenyl	86	40-140	
Fractionation Surrogate			
Biphenyl	94	40-140	
2-Fluorobiphenyl	91	40-140	

N/A - Not Applicable

^{1 =} Range concentration excludes the concentration of any surrogate(s) and/or internal standards eluting in that range.

² = C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

Project:

Client:

Apex Environmental, Inc.

New Bedford Harbor

Lab Code: MA00030

ETR: 0610188

Lab ID: 0610188-19

Client ID:

332A 0-1

N/A

SDG: N/A

Result

Associated Blank: ES111506B10

Matrix:

Parameter

Sediment

Concentration Units: µg/Kg

Date Collected	Date Received	Date Extracted	Percent Solid	Sample Amount (g)	Fraction	Date Analyzed	Final Volume (ml)	Dilution Factor	Analyst
10/22/06	10/27/07	11/15/06	05.0	10.22	Aromatic	11/22/06	1	1	JBS
10/23/06 10/	10/27/06 11/15/06	95.9	10.32	Aliphatic	11/22/06	1	1	JBS	

C ₉ -C ₁₈ Aliphatics ¹	32000	
C ₁₉ -C ₃₆ Aliphatics ¹	26000	
C ₁₁ -C ₂₂ Aromatics ^{1,2}	40000	
Unadjusted C ₁₁ -C ₂₂ Aromatics ¹	40000	
Naphthalene	500	U
2-Methylnaphthalene	500	U
Acenaphthylene	500	U
Acenaphthene	500	U
Fluorene	500	U
Phenanthrene	500	U
Anthracene	500	U
Fluoranthene	500	U
Pyrene	500	U
Benzo(a)anthracene	500	U
Chrysene	500	U
Benzo(b)fluoranthene	500	U
Benzo(k)fluoranthene	500	U
Benzo(a)pyrene	500	U
Indeno(1,2,3-cd)pyrene ³	1000	U
Dibenzo(a,h)anthracene ³	1000	U
Benzo(g,h,i)perylene	500	U

3 = Values reported reflect their sum

- values reported reflect t	men sum.	Acceptance	
Extraction Surrogate	% Recovery	Range (%)	
5-alpha Androstane	68	40-140	
ortho-Terphenyl	66	40-140	
Fractionation Surrogate			
Biphenyl	74	40-140	
2-Fluorobiphenyl	72	40-140	

N/A - Not Applicable

^{1 =} Range concentration excludes the concentration of any surrogate(s) and/or internal standards eluting in that range.

² = C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project:

New Bedford Harbor

ETR: 0610188

Client ID:

Blank

Lab ID: ES111506B10

N/A

SDG: N/A

Associated Blank: N/A

Matrix:

Sediment

Concentration Units: µg/Kg

Date Collected	Date Received	Date Extracted	Percent Solid	Sample Amount (g)	Fraction	Date Analyzed	Final Volume (ml)	Dilution Factor	Analyst
Conecied	Received	Extracted			Aromatic	11/22/06	1	1	JBS
N/A	N/A 11/15/06	11/15/06	100	10.00	Aliphatic	11/22/06	1	1	JBS
Parameter					Resu	lt			

C ₉ -C ₁₈ Aliphatics ¹	3000	U
C ₁₉ -C ₃₆ Aliphatics ¹	4000	U
C ₁₁ -C ₂₂ Aromatics ^{1,2}	8500	U
Unadjusted C ₁₁ -C ₂₂ Aromatics ¹	8500	U
Naphthalene	500	U
2-Methylnaphthalene	500	U
Acenaphthylene	500	<u>U</u>
Acenaphthene	500	U
Fluorene	500	U
Phenanthrene	500	U
Anthracene	500	U
Fluoranthene	500	U
Pyrene	500	U
Benzo(a)anthracene	500	U
Chrysene	500	U
Benzo(b)fluoranthene	500	U
Benzo(k)fluoranthene	500	U
Benzo(a)pyrene	500	U
Indeno(1,2,3-cd)pyrene ³	1000	U
Dibenzo(a,h)anthracene ³	1000	U
Benzo(g,h,i)perylene	500	U

3 = Values reported reflect their sum.

Extraction Surrogate	% Recovery	Acceptance Range (%)
5-alpha Androstane	70	40-140
ortho-Terphenyl	74	40-140
Fractionation Surrogate		
Biphenyl	88	40-140
2-Fluorobiphenyl	86	40-140

N/A - Not Applicable

^{1 =} Range concentration excludes the concentration of any surrogate(s) and/or internal standards eluting in that range.

² = C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

Laboratory Control Summary Extractable Petroleum Hydrocarbons by GC/FID

Project:

Client:

Apex Environmental, Inc.

New Bedford Harbor

Sediment

Client ID:

Matrix:

Laboratory Control Sample

SDG:

Lab Code: MA00030

ETR: 0610188 Lab ID: See Below

Associated Blank: ES111506B10

Concentration Units: μg/Kg

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	11/15/06	100	JBS

Lab ID:	ES111506	ES111506B10		ES111506LCS07		ES111506LCSD07			
	Blank	Blank		LCS		LCSD		RPD %	Recovery
Parameter	Conc.		Conc.	% Recovery	Conc.	% Recovery	% RPD	Limit	Limits
Naphthalene	500	U	5800	58	5700	57	2	25	40-140
2-Methylnaphthalene	500	U	6300	63	6200	62	2	25	40-140
Acenaphthylene	500	U	6800	68	6700	67	2	25	40-140
Acenaphthene	500	U	6900	69	6800	68	2	25	40-140
Fluorene	500	U	7400	75	7300	73	2	25	40-140
Phenanthrene	500	U	7700	77	7600	75	2	25	40-140
Anthracene	500	U	7600	76	7400	75	2	25	40-140
Fluoranthene	500	U	7600	76	7500	75	2	25	40-140
Pyrene	500	Ü	7900	79	7700	77	2	25	40-140
Benzo(a)anthracene	500	U	7800	78	7600	76	2	25	40-140
Chrysene	500	U	7900	79	7800	78	1	25	40-140
Benzo(b)fluoranthene	500	U	8000	80	7900	79	2	25	40-140
Benzo(k)fluoranthene	500	U	7800	78	7600	76	2	25	40-140
Benzo(a)pyrene	500	U	8100	81	8000	80	1	25	40-140
Indeno(1,2,3-cd)pyrene ³	1000	U	16000	80	16000	79	1	25	40-140
Dibenzo(a,h)anthracene ³	1000	U	16000	80	16000	79	1	25	40-140
Benzo(g,h,i)perylene	500	U	8100	81	8000	80	2	25	40-140
n-Nonane (C9)	500	U	3400	34	3600	36	6	25	30-140
n-Decane (C10)	500	U	4800	48	5100	51	6	25	40-140
n-Dodecane (C12)	500	U	5900	59	6300	63	7	25	40-140
n-Tetradecane (C14)	500	U	6800	68	7100	71	5	25	40-140
n-Hexadecane (C16)	500	U	7300	73	7600	76	3	25	40-140
n-Octadecane (C18)	500	U	7700	77	8000	80	3	25	40-140
n-Nonadecane (C19)	500	U	8000	80	8300	83	3	25	40-140
n-Eicosane (C20)	500	U	7900	79	8100	81	3	25	40-140
n-Docosane (C22)	500	U	7900	79	7900	79	0	2 5	40-140
n-Tetracosane (C24)	500	U	8000	80	8000	80	1	25	40-140
n-Hexacosane (C26)	500	U	7900	79	8000	80	1	25	40-140
n-Octacosane (C28)	500	U	7800	78	7800	78	0	25	40-140
n-Triacontane (C30)	500	U	7800	78	7800	78	0	25	40-140
n-Hexatriacontane (C36)	500	U	8400	84	8400	84	0	25	40-140

¹ = Range concentration excludes the concentration of any surrogate(s) and/or internal standards eluting in that range.

³ = Values reported reflect their sum.

Extraction Surrogate	% Re	covery	Acceptance Range (%)
5-alpha Androstane	73	76	40-140
ortho-Terphenyl	78	76	40-140
Fractionation Surrogate			
Biphenyl	85	82	40-140
2-Fluorobiphenyl	82	80	40-140

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

Laboratory Control Summary Extractable Petroleum Hydrocarbons by GC/FID

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project:

New Bedford Harbor

ETR: 0610188

Client ID:

Laboratory Control Sample N/A SDG:

Lab ID: See Below Associated Blank: ES111506B10

Matrix:

Sediment

Concentration Units: μg/Kg

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	11/15/06	100	JBS

Aliphatic Breakthrough Criteria

	111ph/11 78 111								
Lab ID:	ES111506LCS07	ES111506LCSD07							
Parameter	LCS % Breakthrough	LCSD % Breakthrough	% Breakthrough Maximum Limit						
Naphthalene	0.1	0.1	5						
2-Methylnaphthalene	0.2	0.2	5						

N/A - Not Applicable

Total Metals

Client: Project:

Apex Environmental, Inc.

SDG:

New Bedford Harbor

Lab Code: **MA00030** ETR: **0610188**

WOODS HOLE LABSCASE:

N/A

301 0-1

N/A

Lab ID: 0610188-02

Client ID:

L

Concentration Units: mg/Kg

Matrix: Sediment Percent Solid: 79.1

Date Collected: 10/23/06
Date Received: 10/27/06

			Reporting		Date	Date	Analytical Method	Analyst
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Prepared		
Arsenic	2.4		0.099	5	11/10/06	11/08/06	6020A	LCP
Barium	6.2		0.099	5	11/10/06	11/08/06	6020A	LCP
Cadmium	0.21		0.040	5	11/10/06	11/08/06	6020A	LCP
Chromium	16		0.99	5	11/10/06	11/08/06	6020A	LCP
Lead	24		0.099	5	11/10/06	11/08/06	6020A	LCP
Mercury	0.19		0.0060	1	11/09/06	11/08/06	7471A	LMR
Selenium	0.55		0.40	5	11/10/06	11/08/06	6020A	LCP
Silver	0.21		0.092	5	11/13/06	11/08/06	6020A	LMR

N/A - Not Applicable

Total Metals

Client: Project:

Apex Environmental, Inc. New Bedford Harbor

WOODS HOLE LABSCase:

N/A

SDG:

N/A

Client ID: 307A 0-1 Sediment Matrix:

Percent Solid: 57.7

Lab Code: MA00030

ETR: 0610188

Lab ID: 0610188-11

Concentration Units: mg/Kg

Date Collected: 10/23/06

Date Received: 10/27/06

			Reporting		Date	Date	Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Prepared	Method	Analyst
Arsenic	5.9		0.12	5	11/10/06	11/08/06	6020A	LCP
Barium	32	· · · · · · · · · · · · · · · · · · ·	0.12	5	11/10/06	11/08/06	6020A	LCP
Cadmium	4.4		0.050	5	11/10/06	11/08/06	6020A	LCP
Chromium	260		1.2	5	11/10/06	11/08/06	6020A	LCP
Lead	190		0.12	5	11/10/06	11/08/06	6020A	LCP
Mercury	0.94		0.039	5	11/09/06	11/08/06	7471A	LMR
Selenium	1.4		0.50	5	11/10/06	11/08/06	6020A	LCP
Silver	1.8		0.12	5	11/13/06	11/08/06	6020A	LMR

Total Metals

N/A

Client: Project:

WOODS HOLE LABSCase:

Apex Environmental, Inc. **New Bedford Harbor**

SDG:

Lab Code: MA00030

ETR: 0610188

Lab ID: 0610188-15

Concentration Units: mg/Kg

Date Collected: 10/24/06

Client ID: 309 0-1 Matrix: Sediment Percent Solid: 70.1

N/A

Date Received: 10/27/06

			Reporting		Date	Date	Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Prepared	Method	Analyst
Arsenic	5.7		0.11	5	11/10/06	11/08/06	6020A	LCP
Barium	160		0.11	5	11/10/06	11/08/06	6020A	LCP
Cadmium	0.93		0.045	5	11/10/06	11/08/06	6020A	LCP
Chromium	56		1.1	5	11/10/06	11/08/06	6020A	LCP
Lead	360		0.11	5	11/10/06	11/08/06	6020A	LCP
Mercury	0.43		0.0066	1	11/09/06	11/08/06	7471A	LMR
Selenium	0.96		0.45	5	11/10/06	11/08/06	6020A	LCP
Silver	0.54		0.11	5	11/13/06	11/08/06	6020A	LMR

Total Metals

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project:

New Bedford Harbor

ETR: 0610188

WOODS HOLE LABSCase:

N/A

SDG: N/A Lab ID: 0610188-19 Concentration Units: mg/Kg

Client ID: 332A 0-1

Date Collected: 10/23/06

Sediment Matrix: Percent Solid: 95.9

Date Received: 10/27/06

			Reporting		Date	Date	Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Prepared	Method	Analyst
Arsenic	0.90		0.090	5	11/10/06	11/08/06	6020A	LCP
Barium	3.0		0.090	5	11/10/06	11/08/06	6020A	LCP
Cadmium	0.071	· · · · · · · · · · · · · · · · · · ·	0.036	5	11/10/06	11/08/06	6020A	LCP
Chromium	3.7	· · · · · · · · · · · · · · · · · · ·	0.90	5	11/10/06	11/08/06	6020A	LCP
Lead	10		0.090	5	11/10/06	11/08/06	6020A	LCP
Mercury	0.027		0.0051	1	11/09/06	11/08/06	7471A	LMR
Selenium	0.36	U	0.36	5	11/10/06	11/08/06	6020A	LCP
Silver	0.093	U	0.093	5	11/13/06	11/08/06	6020A	LMR

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

11/13/06 15:49

Blank **Total Metals**

N/A

Client: Project:

Apex Environmental, Inc.

SDG:

New Bedford Harbor

Lab Code: MA00030

ETR: 0610188

Lab ID: MS110606B06B

Concentration Units: mg/Kg

Date Collected: N/A

Date Received: N/A

WOODS HOLE LABSCase: Client ID: Blank Matrix: Sediment Percent Solid: 100.0

N/A

Parameter			Reporting			Date	Analytical	
	Result	Qualifier	Limit	Dilution	Analyzed	Prepared	Method	Analyst
Arsenic	0.12	U	0.12	5	11/10/06	11/08/06	6020A	LCP
Barium	0.12	U	0.12	5	11/10/06	11/08/06	6020A	LCP
Cadmium	0.050	U	0.050	5	11/10/06	11/08/06	6020A	LCP
Chromium	1.2	U	1.2	5	11/10/06	11/08/06	6020A	LCP
Lead	0.12	U	0.12	5	11/10/06	11/08/06	6020A	LCP
Selenium	0.50	U	0.50	5	11/10/06	11/08/06	6020A	LCP

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Blank **Total Metals**

N/A

Client:

Apex Environmental, Inc.

SDG:

New Bedford Harbor Project:

ETR: 0610188

Lab Code: MA00030

Lab ID: MS110606B05B Concentration Units: mg/Kg

Date Collected: N/A Date Received: N/A

WOODS HOLE LABSCASE: Client ID: Blank Matrix: Sediment Percent Solid: 100.0

N/A

			Reporting		Date	Date	Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Prepared	Method	Analyst
Silver	0.12	U	0.12	5	11/13/06	11/08/06	6020A	LMR

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Blank **Total Metals**

Client:

Apex Environmental, Inc.

Project:

New Bedford Harbor

ETR: 0610188

WOODS HOLE LABSCase:

N/A SDG: Lab ID: MS110606B07B

Client ID:

N/A

Concentration Units:

mg/Kg

Lab Code: MA00030

Blank Sediment

Date Collected: N/A

Matrix: Percent Solid: 100.0

Date Received: N/A

			Reporting		Date	Date	Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Prepared	Method	Analyst
Mercury	0.010	U	0.010	1	11/09/06	11/08/06	7471A	LMR

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Laboratory Control Sample - High Total Metals

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project:

New Bedford Harbor

SDG:

ETR: 0610188

WOODS HOLE LABSCase: N/A

Client ID: Lab Control Sample High

N/A

Lab ID: MS110606SLH03SLH Concentration Units: mg/Kg

Matrix: Sediment Percent Solid: 100.0

Date Collected: N/A Date Received: N/A

Parameter	Conc.	% Recovery	% Recovery Limits
Arsenic	200	99	80-120
Barium	200	100	80-120
Cadmium	99	99	80-120
Chromium	200	100	80-120
Lead	190	96	80-120
Selenium	200	101	80-120

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

Laboratory Control Sample - Low Total Metals

Clie Proj

Client: Apex Environmental, Inc.

New Bedford Harbor

LABSCase: N/A SDG: N/A
Client ID: Lab Control Sample Low

Matrix: Sediment Percent Solid: 100.0

Lab Code: MA00030

ETR: 0610188

Lab ID: MS110606SLL02SLL

Concentration Units: mg/Kg

Date Collected: N/A

Date Received: N/A

			% Recovery
Parameter	Conc.	% Recovery	_Limits
Silver	2.2	108	80-120

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

Laboratory Control Sample Total Metals

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project:

New Bedford Harbor

ETR: 0610188

N/A SDG: N/A Client ID: Laboratory Control Sample Lab ID: MS110606SLC02SLC Concentration Units:

Matrix: Sediment Percent Solid: 100.0

Date Collected: N/A Date Received: N/A

			% Recovery
Parameter	Conc.	% Recovery	Limits
Mercury	0.48	97	80-120

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

N/A

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Lab ID: 0610188-02

Project:

New Bedford Harbor

ETR: 0610188

WOODS HOLE LABSCase: Client ID:

N/A SDG:

Matrix:

301 0-1 Sediment

Date Collected: 10/23/06

Percent Solid: 79.1

Date Received: 10/27/06

	Reporting				Date	Analytical		
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Unit	Method	Analyst
Total Organic Carbon (Run 1)	0.53		0.01	1	11/14/06	%	9060	JAD
Total Organic Carbon (Run 2)	0.65		0.01	1	11/14/06	%	9060	JAD
Reactive Sulfide	2.4		0.28	1	11/15/06	mg/Kg	Ch.7/376.2	JAD

N/A

Client:

Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Project:

New Bedford Harbor

ETR: 0610188

WOODS HOLE LABSCASE:

Lab ID: 0610188-11

Client ID: 307A 0-1
Matrix: Sediment

N/A

Date Collected: 10/23/06

Percent Solid: 57.7

Date Received: 10/27/06

			Reporting		Date	Analytical		
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Unit	Method	Analyst
Total Organic Carbon (Run 1)	0.98		0.01	1	11/14/06	%	9060	JAD
Total Organic Carbon (Run 2)	0.86		0.01	1	11/14/06	%	9060	JAD
Reactive Sulfide	150		14	50	11/15/06	mg/Kg	Ch.7/376.2	JAD

N/A

Client:

Apex Environmental, Inc.

Project:

New Bedford Harbor

Lab Code: MA00030

ETR: 0610188

VOODS HOLE LABSCASE:

N/A

SDG:

Lab ID: 0610188-15

Client ID: 309 0-1
Matrix: Sediment

Date Collected: 10/24/06

Percent Solid: 70.1

Date Received: 10/27/06

	Reporting				Date	Analytical		
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Unit	Method	Analyst
Total Organic Carbon (Run 1)	2.0		0.01	1	11/14/06	%	9060	JAD
Total Organic Carbon (Run 2)	1.8		0.01	1	11/14/06	%	9060	JAD
Reactive Sulfide	190		14	50	11/15/06	mg/Kg	Ch.7/376.2	JAD

N/A

0.01

1.4

5

Client:

Parameter

Reactive Sulfide

Total Organic Carbon (Run 1)

Total Organic Carbon (Run 2)

Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Project:

New Bedford Harbor

ETR: 0610188

WOODS HOLE LABSCase: Client ID:

11/14/06

11/15/06

Lab ID: 0610188-19 Date Collected: 10/23/06

332A 0-1 Matrix:

Sediment

Qualifier

Date Received: 10/27/06

9060

Ch.7/376.2

JAD

JAD

Percent Solid: 95.9

Result

0.12

0.12

11

N/A

			_ ****			
Reporting		Date	Analytical			
Limit	Dilution	Analyzed	Unit	Method	Analyst	
0.01	1	11/14/06	%	9060	JAD	

%

mg/Kg

N/A - Not Applicable

12/01/06 08:12

Blank Inorganics

Client:

Apex Environmental, Inc.

Project:

New Bedford Harbor

Lab Code: MA00030

ETR: 0610188

WOODS HOLE LABSCASE:

N/A

SDG:

N/A

Lab ID: WS111406B16 Date Collected: N/A

Client ID: Blank
Matrix: Sediment
Percent Solid: 100

Date Received: N/A

			Reporting		Date		Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Unit	Method	Analyst
Total Organic Carbon (Run 1)	0.01	U	0.01	1	11/14/06	%	9060	JAD
Total Organic Carbon (Run 2)	0.01	U	0.01	1	11/14/06	%	9060	JAD

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

12/01/06 08:12

Blank Inorganics

N/A

Client:

Apex Environmental, Inc. New Bedford Harbor Lab Code: MA00030

WOODS HOLE LABSCASE:

Project: 1

SDG:

ETR: 0610188

Client ID: Blank

SD

Lab ID: WS111506B23

Matrix:

Sediment

N/A

Date Collected: N/A

Percent Solid: 100

Date Received: N/A

			Reporting		Date		Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Unit	Method	Analyst
Reactive Sulfide	1.0	U	1.0	1	11/15/06	mg/Kg	Ch.7/376.2	JAD

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

12/01/06 08:12

Standard Reference Material 1944 Inorganics

Client: Project:

Apex Environmental, Inc.

New Bedford Harbor

Lab Code: MA00030

ETR: 0610188

WOODS HOLE LABSCASE:

N/A

SDG:

N/A

Client ID: SRM 1944
Matrix: Sediment
Percent Solid: 100

Lab ID: WS111406L194404

Date Collected: N/A
Date Received: N/A

Parameter	Conc.	% Recovery	% Recovery Limits
Total Organic Carbon (Run 1)	3.8	87	75-125
Total Organic Carbon (Run 2)	3.5	80	75-125

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

Laboratory Control Sample Inorganics

N/A

Client:
Project:

Apex Environmental, Inc.

New Bedford Harbor

Lab Code: MA00030

ETR: 0610188

WOODS HOLE LABSCASE:

N/A

SDG:

Client ID: Laboratory Control Sample

Matrix: Sediment
Percent Solid: 100

Lab ID: WS111506L07 Date Collected: N/A Date Received: N/A

			% Recovery
Parameter	Conc.	% Recovery	Limits
Reactive Sulfide	26	91	75-125

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

A PHA	CI	HAIN OF			GEO	F	Date Re		2,4			6 - 3 N S S S S S S S S S S S S S S S S S S	300 P. S.		CAO188	
WESTBORO, MA TEL: 508-898-9220	RAYNHAM,MA TEL: 508-822-9300		roject Informat					Inform		ata Delive	erables			formation	- BO #	
FAX: 508-898-9193	FAX: 508-822-3288	Pı	roject Name: NG	Herbor	Predge-	Acrett	Æ FAX		EM/				Same as	s Client info	PO #:	
Client Information	on	P	roject Location:	bu Bed	ford, 1	YA_	□ ADE:			Deliveral						
Client: Apex	Companie		roject#: 65°				State /Fed				riteria					
Address: //5	Broad 57	reet Stero P	roject Manager: (Stert M	yers		State /Fet	riogra			- IIIGIIA					
	n, MA		LPHA Quote #:		7		MAMCP	PRESU	IMPTIVE	CERTAIN	ITY C	TREAS	SONAB	LECONFI	DENCEPROTO	COLS
1	728-00		Turn-Around Tir	ne			☐ Yes	X No	Are M	CP Analytic	al Meth	ods Rec	uired?			- · -
Fax: 617-7	28-008					_		X No		•			•	otocols) Red	juired?	
	vs espely	*	Standard	RUSH (re-approved!)		/ /	Jan Y	/ /			/ /	/ /		O T
1	•	y analyzed by Alpha	ate Due:		Time:		8/	, / ;	\$ _B	_ \	//		/ /		MPLEHANDLING tration	G T
Other Project S	pecific Requir	ements/Commen	ts/Detection Li	mits:	- O - I	.بعد	AWAL YSIS	Charles of G	The Holes	10 H.		//	/ /	/ / 📮	Done	#
Min Defections	. Cimits: 45°	=0.5ppm Cd=0.1m ·lmom. PCB summe	3/K3/ 24-175/K3 Him of longeness=	0,001 meye	۶۶ ۲۵-۱۳۰۰ ۱۰ . Eal = ۵	10)000 10)000	₹ ₹	4	-g ² /	/ (آها		/ /	//	, -	Not needed Lab to do	В
70C= 0.	1% , Reactive Su	erients/commen =0.5ppm Cd=0.1m !hpm, PCB swm.ci #ide=30ppm	HOLDA	1) <	5/1-P	10.5	\\docum_{\sym_{\sum_{\sum_{\sym_{\sum_{\sum_{\sym_{\sum_{\sym_{\s\s\s\s\s\s\s\s\sin_\sym_{\sym_{\sym_{\sym_{\sym_{\sym_{\sym_{\sym_\}\syn_{\sym_\}\sin_\sym_	ं दूर् व	\$\\\\\\\- <u></u>	<u>y</u> / /	/ /	' / ,	/ /	/	eservation Lab to do	O T
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(Lab Use Only)		Sample ID	Date	Time	Matrix	Initials	\$ 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	/ W/	,\&				//	Sample S	Specific Comment	s s
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- 2	301	0-1	1023106	330pm	2EV	KN	$\times\!\!\times$	(X)	$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$							
3.3	302	0-1	1073,06	340pm	JEO	KUN	X									
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to the second second	304 1	0-1		346pr	 	KNN					_		-			
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~ 8	305	0-1	10/23/06	410pm	UED	KUN	X									
20.00	306 C) <u>~ </u>	10/23/06	Yzapr	SEO	KN										
ollo	306 2	535	10/23/06	420pm	JE0	KN	X									
PLEASE ANSWE	RQUESTIONSA	BOVE!			Conta	ainer Type									nt clearly, legibly a	
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FORM NO: 01-01 (rev. 10-0	OCT-05)	Poul I	illet		10-2	7-06 09	45	los	Mu		10/2	7/06	0945			***

Morra	CHAIN O	F CUST	FODY PAG	E 2 OF V	_ Date Re	d in Lab:			ALPHA	Job#: 0610183
WESTBORO, MA	RAYNHAM,MA	Project Info	ormation		Report	nformation	n - Data Del	iverables	Billingl	nformation
TEL: 508-898-9220 FAX: 508-898-9193	TEL: 508-822-9300 FAX: 508-822-3288	Project Name	:NS Harbar A	edu- Prese II	≱ FAX	×	EMAIL		☐ Same a	s Client info PO#:
Client Information	on		tion: New Bed		□ ADE		Add'l Delive	rables		
Client: Apex (orpanics UC	Project #:	591.00	iovi) i			ments/Rep			
,	Broad Street Svite Zun		ger: Olet M	yers	State /Fed	Program		Criteria		
	MA OZINO	ALPHA Quote		L	MAMCP	PRESUMP	TIVECERTA	AINTY CT I	REASONAE	BLECONFIDENCEPROTOCOLS
	728-0070 X-113	Turn-Arou	ınd Time		☐ Yes	ANO A	re MCP Anal	ytical Method:	s Required?	
	78-0080				☐ Yes `			•	-	rotocols) Required?
E	Capexen V. Com	Standard	☐ RUSH (on	ly confirmed if pre-approve		/ 3/	2//	/ / /	///	1 0
☐ These samples h	nave been previously analyzed by Alpi			Time:	- 8 /_	۲/گم <u>/</u>		/ /	/ / /	/ SAMPLE HANDLING A Filtration
Other Project S MA Delection L PCB sum of Ca	Fpecific Requirements/Community AS=0.5 ppm, cd= =0.601ppm, EPH=0.01, HOLD A)) 5	pm, foc=0.	ion Limits: 9 0 sppn, W1, 2n 11 %, Recsoff, = 5 pendling C	-30ppm	or) AWK Sis	Solution of the second of the	The WHAT			Done Not needed Lab to do Preservation Lab to do (Please specify below)
ALPHA Lab ID (Lab Use Only)	Sample ID		Collection	Sample Samp	er's 120 0	江杨				Sample Specific Comments
The state of the s	307A 0-1				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	XX	Z		+	dampie oposijio comments
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- B	- 17 - 10 010		3/02 9357/19				-			
		10/2		SEO KA						
	308 57-37	10)23/	106 910AM	seo kin	X				1 1	
	309 0-1	18/241	106 751AM	TEO KN	XX	XXY	(
	310 0-1	10/24/01	06 826AM	red kn	V					
÷ A	310 25-35	10241		SED KU	X					
[8	3-29 0-1	10/23	3/06 100pm	20-10	$\lambda \mid \lambda$					
	332A O-1	10/23/6		SEO KUI	. 12 215 7	$\chi\chi$	X			
گر ے ت	330 (-)	10/20			.					
OD DIFASEANSWE	R QUESTIONS ABOVE!	JUIP	, , , , , , , , , , , , , , , , , , ,	Container T	<u> </u>					Please print clearly, legibly word
0				Preserva	· +					completely. Samples can not be logged in and turnaround time clock
Ψ.		Refinquished	d By:	Date/Time		Received			te/Time	will not start until any ambiguities and resolved. All samples submitted are
MA MCP	or CT RCP?	00 - 200 : : :		10)26/02 4	m Still	Mugas	<u> </u>		06 your	subject to Alpha's Payment Terms.
FORM NO: 01-01 (rev. 10-0	OCT-05)	de lille	rec	1027-069		MARIE	the -	10/27-1		See reverse side.

Sample Receipt Checklist

	1		Page 1 of
Client: APEENU	Receipt Date:	10/27/06	
Project: NB Harbor Phase TI	Log-in Date:	, 4	
ETR#: 0610188	Inspection by: L	Login by:	W
ALL SECTIONS BELOW MUST BE COMPLI	ETED	Comments / No	otes
Were samples shipped? Yes, FedEx / UPS / Other:		G 1 G:	. , (2
No. WHG Courier pick-up Hand	delivered	Sample storage refri	
Is bill of lading retained? Yes, Tracking #:		Sample storage freez	zer #:
No, Unavailable / NA			
Number of coolers received for this project delivery:		•	
Indicate cooler temperature upon opening (if multiple coolers, record	l <u>all</u> temps):	Cooler 2:	Cooler 3:
Note: If <u>all</u> coolers are 2-6°C, use one checklist, if NOT, use separat <u>all</u> samples received above 6°C.	e checklists and note	Cooler 4:	Cooler 5:
Cooler 1: Temperature(s) taken from: IR Gun, 3° Temp. Bl.	ank, / NA	Cooler 6:	Cooler 7:
Were samples received on ice? (Yes) / No		More:	
Chain-of-Custody present? (Yes) / No	· · · · · · · · · · · · · · · · · · ·		
Complete? (Yes) / No			
		·	
Custody seals present on Cooler? Yes / Yo			
on Bottles? Yes / Yo			
Intact? Yes / No / (NA) Note: Affix custody seals to back of this page.			
	If No, list samples: ->		
Did VOA/VPH waters contain headspace (>5mm)? Yes / No (NA)I	f Yes, list samples: →		
	/ No / NA If No, list samples: →		
Was a sufficient amount of sample received for each test indicated on Yes / No	the COC? If No, list samples:		
If chemical preservation is appropriate - Were samples field preserved? Yes / No /	(NA)	Chemical preservation samples?	on OK for ALL
\square C=HCl \square M=MeOH \square S=H ₂ SO4		Yes / No	/ (N/A)
H=NaOH N=HNO ₃ Other: U= Unk	nown	If No, list samples be	
Preservation (pH) verified at lab for EVERY bottle? (Not: VOA / VPI	H / Sulfide)	ii ivo, ust samples de	<u></u>
YES: <2 or >12 (CN) or NO If No, why?:	NA NA		
Were samples received within hold time? (es)/ No If	No, list samples: →		
Discrepancy between samples rec'd & COC? Yes / No If	Yes, list samples: >		
Was the Project Manager notified of any other problems? Yes /	No / NA		
Project Manager Acknowledgement: Line Color Date: 10/2	27/04	Please use back for a	ny additional notes!

Certificate Program Summary



Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

Connecticut Department of Public Health Certificate No.: PH-0141 - Wastewater (General Chemistry: 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2, 365.2, 405.1, 413.1, COD HACH 8000; Metals: 200.7, 245.1; Organics: 608, 624, 625). Solid Waste/Soil (General Chemistry: 1010, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

Florida Department of Health Certificate No.: E87814 - Secondary NELAP Accreditation for Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, SM2320B, 335.2, 365.2, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). Solid and Hazardous Waste (General Chemistry: 9010/9014, 9045, 9050, 9056, 9060, 9065; Metals: 6010, 6020, 7041, 7060, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Louisiana Department of Environmental Quality Certificate No.: 03090 - Primary NELAP Accrediting Authority for Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). Solid and Hazardous Waste (General Chemistry: 1010, 1311, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7060, 7191, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Maine Department of Human Services Certificate No.: MA030 - Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

Massachusetts Department of Environmental Protection Certificate No.: M-MA030 - Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

New Hampshire Department of Environmental Services Certificate No.: 220604 - Secondary NELAP Accreditation for Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, COD HACH 8000, SM2540G; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625).

New Jersey Department of Environmental Protection Certificate No.: MA015 - Solid and Hazardous Waste (General Chemistry: 1010, 1311, 3060, 7196, 9010/9014, 9045, 9056, 9060; Metals: 3010, 3015, 3020, 3050, 3051, 6010, 6020, 7041, 7060, 7131, 7191, 7211, 7421, 7470, 7471, 7520, 7740, 7761, 7841; Organics: 3510, 3545, 5030, 5035, 3620, 3630, 3640, 3660, 8081, 8082, 8100, 8260, 8270).

New York Department of Health Certificate No.: 11627 - Secondary NELAP Accreditation for Wastewater (Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). Solid and Hazardous Waste (Metals: 6010, 7041, 7060, 7470, 7471, 7740; Organics: 8081, 8082, 8260, 8270).

Rhode Island Department of Health Certificate No.: 00064 - Chemistry: Organic and Inorganic in Surface Water, Wastewater/Sewage and Soil (Method numbers not specified with certificate.)

U.S. Army Corps of Engineers - General Chemistry: 9010/9014, 9071/418.1, 9060; Organics: 8081, 8082, 8260, 8270, 8270-SIM; Metals: 6010, 6020, 7000.

Department of the Navy - General Chemistry: 9010/9014, 9060; Organics: 8081, 8082, 8015-mod, 8260, 8270, 8270-SIM; Metals: 6010, 6020.



ANALYTICAL REPORT

Prepared for:

Apex Environmental, Inc. 286 Congress Street Suite 610 Boston, MA 02210

Project:

New Bedford Harbor

ETR:

0610189

Report Date:

December 04, 2006

Certifications and Accreditations

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220602
Rhode Island 64
New Jersey MA015
Maine MA030
New York 11627
Louisiana 03090
Army Corps of Engineers
Department of the Navy
Florida E87814

This report shall not be reproduced except in full, without written approval from the laboratory.



Sample ID Cross Reference



Client: Apex Environmental, Inc.

Project: New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

Lab Sample ID	Client Sample ID
0610189-01	311 0-1
0610189-03	316 0-1
0610189-04	319 0-1
0610189-05	321 0-1
0610189-06	325 0-1
0610189-07	327 0-1
0610189-08	328 0-1
0610189-09	331 0-1
0610189-10	333 0-1
0610189-11	334 0-1
0610189-12	335 0-1
0610189-13	336 0-1
0610189-14	337 0-1

Gaps in Lab Sample IDs are indicative of samples not analyzed per client request.

CASE NARRATIVE Alpha Woods Hole Labs

ETR: 0610189

Project: New Bedford Harbor

All analyses were performed according to Alpha Woods Hole Labs quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report were performed within holding time, and with appropriate quality control measures, except where noted. A summary of all state and federal accreditations is provided within this report. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted. Air and sediment samples are either not certifiable under the NELAC and/or are not currently held as accredited matrices.

Sample Receipt

Samples were frozen upon receipt, extending the extraction holding time.

Polychlorinated Biphenyls by GC/MS

- 1. Several target congeners analyzed by this method co-elute with non-target congeners and are therefore reported as a coeluting pair. Refer to the individual report forms.
- The initial analysis of several samples had concentrations that exceeded the calibration range of the instrument. These samples were reanalyzed at dilution and both analyses are reported. Refer to the individual report forms for dilution requirements.

Extractable Petroleum Hydrocarbons by GC/FID

1. All data quality objectives were met.

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Woods Hole Labs makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Woods Hole Labs. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Manager Date: 12/4/06

PCB CONGENERS

Client: Project:

Matrix:

Apex Environmental, Inc. New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

Lab ID: 0610189-01

Associated Blank: SS111506B09

Client ID: Case:

311 0-1

Sediment

N/A SDG:

N/A

Concentration Units: μg/Kg

								1.99
Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/24/06	10/27/06	11/15/06	11/29/06	65.7	5.42	2	1	TLW

Parameter	Result
Cl2-BZ#5/#81	29
Cl3-BZ#18	65
Cl3-BZ#28/#311	390
Cl4-BZ#44	95
Cl4-BZ#52	170
Cl4-BZ#43/#491	200
Cl4-BZ#66	190
Cl5-BZ#101/#841	300
C15-BZ#87	78
C17-BZ#184	0.28 U
Cl5-BZ#105	81
C15-BZ#118	240 E
Cl7-BZ#183	9.4
Cl6-BZ#167/#1281	43
Cl6-BZ#138/#1631	180
Cl6-BZ#153	160
Cl7-BZ#170/#1901	20
C17-BZ#180	32
C17-BZ#182/#187'	21
Cl8-BZ#195	2.5
CI9-BZ#206	3.0
Cl10-BZ#209	1.2

¹ = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	76	50-125
Cl8-BZ#202-C13	76	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project: Client ID:

Apex Environmental, Inc.

New Bedford Harbor

311 0-1

Sediment

Case:

Matrix:

N/A

SDG:

N/A

Lab Code: MA00030

ETR: 0610189

Lab ID: 0610189-01E

Associated Blank: SS111506B09

Concentration Units: μg/Kg

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
10/24/06	10/27/06	11/15/06	11/29/06	65.7	5.42	2	5	TLW

Parameter	Result
Cl2-BZ#5/#8 ¹	31
Cl3-BZ#18	65
C13-BZ#28/#311	370
Cl4-BZ#44	95
Cl4-BZ#52	170
Cl4-BZ#43/#491	190
Cl4-BZ#66	180
CI5-BZ#101/#841	300
C15-BZ#87	80
C17-BZ#184	1.4 U
C15-BZ#105	80
C15-BZ#118	230
CI7-BZ#183	11
Cl6-BZ#167/#1281	44
CI6-BZ#138/#1631	180
Cl6-BZ#153	160
Cl7-BZ#170/#1901	22
Cl7-BZ#180	35
Cl7-BZ#182/#187'	23
Cl8-BZ#195	3.9
Cl9-BZ#206	3.9
Cl10-BZ#209	2.3

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	88	50-125
C18-BZ#202-C13	88	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID:

New Bedford Harbor

ETR: 0610189

316 0-1

Lab ID: 0610189-03

N/A SDG: N/A

Associated Blank: SS111506B09

Matrix:

Sediment

Concentration Units: μg/Kg

	Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
ľ	10/25/06	10/27/06	11/15/06	11/29/06	62.0	5.68	2	` 1	TLW

Parameter	Result
Cl2-BZ#5/#81	34
Cl3-BZ#18	70
Cl3-BZ#28/#311	400
Cl4-BZ#44	110
C14-BZ#52	210
Cl4-BZ#43/#491	240
Cl4-BZ#66	200
Cl5-BZ#101/#841	410
C15-BZ#87	100
Cl7-BZ#184	0.28 U
Cl5-BZ#105	100
Cl5-BZ#118	340 E
Cl7-BZ#183	15
Cl6-BZ#167/#1281	62
Cl6-BZ#138/#1631	260
Cl6-BZ#153	260 E
Cl7-BZ#170/#1901	31
Cl7-BZ#180	51
Cl7-BZ#182/#1871	35
Cl8-BZ#195	4.6
Cl9-BZ#206	4.9
Cl10-BZ#209	2.4

^{1 =} These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-Cl3	74	50-125
C18-BZ#202-C13	78	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID:

New Bedford Harbor

ETR: 0610189

Case:

316 0-1

Lab ID: 0610189-03E

N/A SDG:

Associated Blank: SS111506B09

Concentration Units:

μg/Kg

Matrix: Sediment

[Date	Date	Date	Date		Sample	Final	Dilution	
(Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
	10/25/06	10/27/06	11/15/06	11/29/06	62.0	5.68	2	5	TLW

N/A

Parameter	Result
Cl2-BZ#5/#81	38
Cl3-BZ#18	76
Cl3-BZ#28/#311	410
Cl4-BZ#44	120
C14-BZ#52	220
Cl4-BZ#43/#491	260
Cl4-BZ#66	210
Cl5-BZ#101/#84 ¹	440
Cl5-BZ#87	110
Cl7-BZ#184	1.4 U
Cl5-BZ#105	110
Cl5-BZ#118	360
Cl7-BZ#183	16
Cl6-BZ#167/#1281	70
Cl6-BZ#138/#1631	290
Cl6-BZ#153	280
Cl7-BZ#170/#1901	34
Cl7-BZ#180	56
Cl7-BZ#182/#187 ¹	39
Cl8-BZ#195	4.9
Cl9-BZ#206	5.4
Cl10-BZ#209	2.9

¹ = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)	
Cl3-BZ#19-C13	86	50-125	
CI8-BZ#202-C13	94	50-125	

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project: Client ID:

Case:

Matrix:

Apex Environmental, Inc.

New Bedford Harbor

319 0-1

Sediment

N/A SDG:

N/A

Lab Code: MA00030

ETR: 0610189

Lab ID: 0610189-04

Associated Blank: SS111506B09

Concentration Units: μg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/23/06	10/27/06	11/15/06	11/29/06	76.8	5.60	2	1	TLW

Parameter	Result
Cl2-BZ#5/#8 ¹	7.4
Cl3-BZ#18	13
Cl3-BZ#28/#311	64
Cl4-BZ#44	19
Cl4-BZ#52	37
Cl4-BZ#43/#491	39
Cl4-BZ#66	29
C15-BZ#101/#84 ¹	50
CI5-BZ#87	12
CI7-BZ#184	0.23 U
CI5-BZ#105	12
Cl5-BZ#118	38
C17-BZ#183	1.7
Cl6-BZ#167/#1281	6.8
Cl6-BZ#138/#1631	28
Cl6-BZ#153	29
C17-BZ#170/#1901	2.9
Cl7-BZ#180	4.7
C17-BZ#182/#1871	3.6
Cl8-BZ#195	0.23 U
Cl9-BZ#206	0.49
Cl10-BZ#209	0.48

^{1 =} These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	76	50-125
Cl8-BZ#202-C13	82	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project:

Apex Environmental, Inc.

New Bedford Harbor

Client ID: 321 0-1

Case: Matrix: N/A

Sediment

SDG:

Lab Code: MA00030

ETR: 0610189

Lab ID: 0610189-05

Associated Blank: SS111506B09

Concentration Units:

μg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/25/06	10/27/06	11/15/06	11/29/06	63.7	5.55	2	1	TLW

N/A

Parameter	Result
Cl2-BZ#5/#81	24
Cl3-BZ#18	68
Cl3-BZ#28/#311	270
Cl4-BZ#44	82
C14-BZ#52	120
Cl4-BZ#43/#491	110
Cl4-BZ#66	140
C15-BZ#101/#84'	170
Cl5-BZ#87	45
CI7-BZ#184	0.28 U
Cl5-BZ#105	46
C15-BZ#118	97
CI7-BZ#183	43
Cl6-BZ#167/#128 ¹	22
Cl6-BZ#138/#1631	180
Cl6-BZ#153	180
C17-BZ#170/#1901	77
C17-BZ#180	170
Cl7-BZ#182/#187 ¹	96
Cl8-BZ#195	18
C19-BZ#206	8.8
Cl10-BZ#209	0.36

^{1 =} These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)	
Cl3-BZ#19-C13	84	50-125	
CI8-BZ#202-C13	88	50-125	

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Project: Client ID:

Matrix:

New Bedford Harbor

325 0-1

Sediment

N/A

SDG:

N/A

Lab Code: MA00030

ETR: 0610189

Lab ID: 0610189-06

Associated Blank: SS111506B09

Concentration Units:

μg/Kg

Date	Date	Date	Date	D 4 G.11.1	Sample	Final	Dilution	Amalaiat
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/25/06	10/27/06	11/15/06	11/29/06	46.5	5.88	2	1	TLW

Parameter	Result
Cl2-BZ#5/#81	73
Cl3-BZ#18	150
C13-BZ#28/#31 ¹	720 E
Cl4-BZ#44	220
Cl4-BZ#52	370 E
Cl4-BZ#43/#491	320
Cl4-BZ#66	350 E
Cl5-BZ#101/#841	940 E
Cl5-BZ#87	280
C17-BZ#184	0.37 U
Cl5-BZ#105	250
C15-BZ#118	620 E
C17-BZ#183	120
Cl6-BZ#167/#1281	150
Cl6-BZ#138/#1631	810 E
Cl6-BZ#153	870 E
Cl7-BZ#170/#1901	210
Cl7-BZ#180	440 E
C17-BZ#182/#187 ¹	300
Cl8-BZ#195	42
Cl9-BZ#206	33
Cl10-BZ#209	9.4

¹ = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)	
Cl3-BZ#19-C13	78	50-125	
Cl8-BZ#202-C13	80	50-125	

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

12/01/06 16:00

Client: Project: Client ID:

Apex Environmental, Inc.

SDG:

New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

Lab ID: 0610189-06E

μg/Kg

Associated Blank: SS111506B09 Concentration Units:

Case: Matrix:

Sediment

325 0-1

N/A

[Date	Date	Date	Date		Sample	Final	Dilution	
	Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
	10/25/06	10/27/06	11/15/06	11/29/06	46.5	5.88	2	10	TLW

N/A

Parameter	Result
Cl2-BZ#5/#81	80
Cl3-BZ#18	160
Cl3-BZ#28/#31'	780
Cl4-BZ#44	260
Cl4-BZ#52	400
Cl4-BZ#43/#49 ¹	340
Cl4-BZ#66	380
Cl5-BZ#101/#841	1000
C15-BZ#87	310
CI7-BZ#184	3.7 U
Cl5-BZ#105	270
C15-BZ#118	650
C17-BZ#183	130
Cl6-BZ#167/#1281	160
Cl6-BZ#138/#1631	870
Cl6-BZ#153	940
Cl7-BZ#170/#1901	220
Cl7-BZ#180	470
Cl7-BZ#182/#187'	340
Cl8-BZ#195	48
Cl9-BZ#206	34
Cl10-BZ#209	13

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	96	50-125
CI8-BZ#202-C13	95	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Percent Solid

36.6

Sample

Amount (g)

5.67

2

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID:

New Bedford Harbor

ETR: 0610189 Lab ID: 0610189-07

Factor

WOODS HOLE LA Case:

Date

Received

10/27/06

Date

Collected

10/25/06

327 0-1 N/A SDG: N/A

Date

Analyzed

11/29/06

Associated Blank: SS111506B09

Analyst

TLW

Sediment Matrix:

Date

Extracted

11/15/06

Concentration Units: $\mu g/Kg$ Final Dilution Volume (ml)

Par	ameter		Result	
Cl2	-BZ#5/#8¹		 100	
C13	-BZ#18		180	
Cl3	-BZ#28/#31 ¹		1000	E
Cl4	-BZ#44		 280	
C14	-BZ#52		 <u>490</u>	E
Cl4	-BZ#43/#49 ¹		 540	
Cl4	-BZ#66		 <u>510</u>	E
Cl5	-BZ#101/#841		810	E
C15	-BZ#87		 <u>190</u>	
<u>C17</u>	-BZ#184	·	 0.48	U
<u>C15</u>	-BZ#105		 210	
C15	-BZ#118		 650	E
C17	-BZ#183		57	
<u>Cl6</u>	-BZ#167/#1281		 120	
<u>C</u> 16	-BZ#138/#1631		 560	
<u>Cl6</u>	-BZ#153		 610	E
<u>C17</u>	-BZ#170/#190 ¹		 110	
C17	-BZ#180		210	
<u>C17</u>	-BZ#182/#1871		 140	
Cl8	-BZ#195		 21	
C19-	-BZ#206		 16	
Cl1	0-BZ#209		 4.9	

^{1 =} These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
CI3-BZ#19-C13	73	50-125
CI8-BZ#202-C13	75	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project:

Apex Environmental, Inc.

New Bedford Harbor

ETR: 0610189

Client ID:

327 0-1

Lab ID: 0610189-07E

Lab Code: MA00030

N/A

Associated Blank: SS111506B09

Matrix:

SDG: Sediment

Concentration Units: μg/Kg

[Date	Date	Date	Date		Sample	Final	Dilution	
					Percent Solid		Volume (ml)	Factor	Analyst
ļ	Collected	Received	Extracted	Analyzed	 	Amount (g)	Volume (IIII)	Pactor	
	10/25/06	10/27/06	11/15/06	11/29/06	36.6	5.67	2	5	TLW

N/A

Parameter	Result
Cl2-BZ#5/#81	120
Cl3-BZ#18	200
Cl3-BZ#28/#311	1100
CI4-BZ#44	310
Cl4-BZ#52	520
Cl4-BZ#43/#49'	570
Cl4-BZ#66	540
C15-BZ#101/#841	880
Cl5-BZ#87	200
C17-BZ#184	2.4 U
Cl5-BZ#105	230
C15-BZ#118	700
CI7-BZ#183	63
Cl6-BZ#167/#1281	140
Cl6-BZ#138/#1631	610
Cl6-BZ#153	660
C17-BZ#170/#1901	110
C17-BZ#180	220
Cl7-BZ#182/#187 ¹	160
Cl8-BZ#195	26
C19-BZ#206	18
Cl10-BZ#209	7.0

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	85	50-125
C18-BZ#202-C13	86	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID: **New Bedford Harbor**

ETR: 0610189 Lab ID: 0610189-08

Case:

328 0-1 N/A

Associated Blank: SS111506B09

Matrix:

SDG: N/A

Concentration Units:

μg/Kg

Sediment

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/25/06	10/27/06	11/15/06	11/29/06	32.1	5.20	2	1	TLW
	Para	ameter			I	Result		
	C12-	BZ#5/#81				70		
	C13-	BZ#18				130		
	C13-	BZ#28/#31				720		

C12-BZ#5/#81	70
Cl3-BZ#18	130
Cl3-BZ#28/#31'	720
Cl4-BZ#44	170
Cl4-BZ#52	330
Cl4-BZ#43/#491	410
Cl4-BZ#66	300
Cl5-BZ#101/#841	530
Cl5-BZ#87	96
Cl7-BZ#184	0.60 U
CI5-BZ#105	120
Cl5-BZ#118	430
<u>Cl7-BZ#183</u>	47
Cl6-BZ#167/#1281	80
Cl6-BZ#138/#1631	390
Cl6-BZ#153	450
Cl7-BZ#170/#1901	82
Cl7-BZ#180	170
Cl7-BZ#182/#187 ¹	120
Cl8-BZ#195	18
Cl9-BZ#206	13
C110-BZ#209	4.3

¹ = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	74	50-125
Cl8-BZ#202-C13	79	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Project: Client ID: New Bedford Harbor

ETR: 0610189 Lab ID: 0610189-09

Case:

331 0-1 N/A

N/A

Associated Blank: SS111506B09

Matrix:

Sediment

Concentration Units: μg/Kg

								100	_
Date	Date	Date	Date		Sample	Final	Dilution		
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst	
10/25/06	10/27/06	11/15/06	11/29/06	57.0	5.29	2	1	TLW	

Parameter	Result
Cl2-BZ#5/#81	1.5
Cl3-BZ#18	2.7
Cl3-BZ#28/#311	14
Cl4-BZ#44	4.0
Cl4-BZ#52	7.6
Cl4-BZ#43/#491	8.7
Cl4-BZ#66	6.0
Cl5-BZ#101/#841	12
Cl5-BZ#87	2.3
Cl7-BZ#184	0.33 U
CI5-BZ#105	2.7
CI5-BZ#118	9.2
C17-BZ#183	1.6
Cl6-BZ#167/#1281	3.0
Cl6-BZ#138/#1631	8.4
Cl6-BZ#153	10
Cl7-BZ#170/#1901	1.7
Cl7-BZ#180	3.9
C17-BZ#182/#1871	2.8
Cl8-BZ#195	0.33 U
Cl9-BZ#206	0.33 U
Cl10-BZ#209	0.33 U

^{1 =} These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	82	50-125
Cl8-BZ#202-C13	76	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID:

New Bedford Harbor

ETR: 0610189

WOODS HOLE LABSCHOL

333 0-1

Lab ID: 0610189-10

N/A SDG:

Associated Blank: SS111506B09

Matrix:

Sediment

Concentration Units:

μg/Kg

	Date	Date	Date	Date		Sample	Final	Dilution	
C	ollected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
1	0/24/06	10/27/06	11/15/06	11/29/06	54.3	5.78	2	1	TLW

N/A

Parameter	Result
Cl2-BZ#5/#81	220
Cl3-BZ#18	610 E
Cl3-BZ#28/#311	2400 E
Cl4-BZ#44	590 E
Cl4-BZ#52	880 E
Cl4-BZ#43/#491	900 E
Cl4-BZ#66	910 E
CI5-BZ#101/#841	1100 E
Cl5-BZ#87	400 E
C17-BZ#184	0.32 U
Cl5-BZ#105	360 E
CI5-BZ#118	840 E
C17-BZ#183	28
Cl6-BZ#167/#1281	150
Cl6-BZ#138/#1631	640 E
Cl6-BZ#153	500 E
Cl7-BZ#170/#190 ¹	61
C17-BZ#180	94
CI7-BZ#182/#187 ¹	56
Cl8-BZ#195	5.6
Cl9-BZ#206	8.3
Cl10-BZ#209	2.9

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	80	50-125
Cl8-BZ#202-C13	82	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Project: **New Bedford Harbor** ETR: 0610189

Lab Code: MA00030

Client ID:

333 0-1

Lab ID: 0610189-10E

Case:

N/A SDG: N/A

Associated Blank: SS111506B09

Matrix:

Sediment

Concentration Units: μg/Kg

{	Date	Date	Date	Date		Sample	Final	Dilution	
1	Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
	10/24/06	10/27/06	11/15/06	11/29/06	54.3	5.78	2	10	TLW

Parameter	Result
Cl2-BZ#5/#81	190
Cl3-BZ#18	560
Cl3-BZ#28/#311	2200
Cl4-BZ#44	570
Cl4-BZ#52	840
Cl4-BZ#43/#491	850
Cl4-BZ#66	850
Cl5-BZ#101/#841	1100
C15-BZ#87	380
Cl7-BZ#184	3.2 U
Cl5-BZ#105	350
Cl5-BZ#118	790
Cl7-BZ#183	32
Cl6-BZ#167/#1281	150
Cl6-BZ#138/#1631	620
Cl6-BZ#153	490
Cl7-BZ#170/#190'	64
Cl7-BZ#180	94
Cl7-BZ#182/#1871	64
Cl8-BZ#195	7.2
C19-BZ#206	8.7
Cl10-BZ#209	4.4

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-Cl3	91	50-125
Cl8-BZ#202-C13	97	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

12/01/06 16:09

Client: Project: Client ID:

Apex Environmental, Inc.

New Bedford Harbor

334 0-1

Sediment

Matrix:

SDG:

N/A

Lab Code: MA00030

ETR: 0610189

Lab ID: 0610189-11

Associated Blank: SS111506B09

Concentration Units:

μg/Kg

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
10/24/06	10/27/06	11/15/06	11/29/06	50.7	5.40	2	1	TLW

Parameter	Result
Cl2-BZ#5/#81	40
Cl3-BZ#18	93
Cl3-BZ#28/#311	550
Cl4-BZ#44	120
Cl4-BZ#52	280
Cl4-BZ#43/#491	310
Cl4-BZ#66	220
Cl5-BZ#101/#841	360
Cl5-BZ#87	85
CI7-BZ#184	0.36 U
Cl5-BZ#105	87
Cl5-BZ#118	290
C17-BZ#183	11
Cl6-BZ#167/#1281	50
Cl6-BZ#138/#1631	210
Cl6-BZ#153	220
Cl7-BZ#170/#1901	20
C17-BZ#180	33
Cl7-BZ#182/#1871	25
Cl8-BZ#195	2.5
Cl9-BZ#206	3.6
C110-BZ#209	1.8

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	78	50-125
C18-BZ#202-C13	81	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project: Client ID:

Apex Environmental, Inc.

New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

Lab ID: 0610189-12

Associated Blank: SS111506B09

Case:

Matrix:

335 0-1

Sediment

N/A

SDG:

N/A

Concentration Units: μσ/Κσ

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/24/06	10/27/06	11/15/06	11/29/06	64.3	5.39	2	1	TLW

Parameter	Result
Cl2-BZ#5/#81	57
Cl3-BZ#18	160
Cl3-BZ#28/#31 ¹	640 E
Cl4-BZ#44	190
Cl4-BZ#52	370 E
Cl4-BZ#43/#49'	320
Cl4-BZ#66	270 E
Cl5-BZ#101/#84 ¹	580 E
Cl5-BZ#87	180
C17-BZ#184	0.29 U
Cl5-BZ#105	160
Cl5-BZ#118	440 E
C17-BZ#183	15
Cl6-BZ#167/#1281	84
Cl6-BZ#138/#1631	340
Cl6-BZ#153	290 E
Cl7-BZ#170/#190 ¹	31
C17-BZ#180	50
Cl7-BZ#182/#187 ¹	31
Cl8-BZ#195	3.5
Cl9-BZ#206	4.6
Cl10-BZ#209	2.2

^{1 =} These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	75	50-125
C18-BZ#202-C13	85	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Lab ID: 0610189-12E

Project:

New Bedford Harbor

ETR: 0610189

Client ID: Case:

335 0-1 N/A

N/A

Associated Blank: SS111506B09

Matrix:

Sediment

Concentration Units: μg/Kg

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
10/24/06	10/27/06	11/15/06	11/29/06	64.3	5.39	2	5	TLW

Parameter	Result
Cl2-BZ#5/#81	53
Cl3-BZ#18	150
Cl3-BZ#28/#311	600
Cl4-BZ#44	180
Cl4-BZ#52	350
Cl4-BZ#43/#49'	300
Cl4-BZ#66	260
C15-BZ#101/#84'	560
Cl5-BZ#87	170
C17-BZ#184	1.4 U
Cl5-BZ#105	160
C15-BZ#118	430
C17-BZ#183	14
Cl6-BZ#167/#1281	81
Cl6-BZ#138/#1631	330
Cl6-BZ#153	280
Cl7-BZ#170/#1901	33
Cl7-BZ#180	50
Cl7-BZ#182/#187 ¹	31
C18-BZ#195	7.8
Cl9-BZ#206	3.9
Cl10-BZ#209	1.4 U

^{1 =} These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)	
Cl3-BZ#19-C13	81	50-125	
Cl8-BZ#202-C13	82	50-125	

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project: Client ID:

Apex Environmental, Inc.

New Bedford Harbor

336 0-1

Sediment

Case:

Matrix:

N/A SDG: N/A Lab Code: MA00030

ETR: 0610189

Lab ID: 0610189-13

Associated Blank: SS111506B09

Concentration Units: μg/Kg

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
10/24/06	10/27/06	11/15/06	11/29/06	56.4	5.81	2	1	TLW

Parameter	Result
Cl2-BZ#5/#81	73
Cl3-BZ#18	170
Cl3-BZ#28/#311	800 E
Cl4-BZ#44	290 E
Cl4-BZ#52	640 E
Cl4-BZ#43/#491	510 E
Cl4-BZ#66	320 E
Cl5-BZ#101/#841	1000 E
Cl5-BZ#87	350 E
C17-BZ#184	0.31 U
Cl5-BZ#105	310 E
Cl5-BZ#118	820 E
C17-BZ#183	28
Cl6-BZ#167/#128 ¹	170
C16-BZ#138/#163 ¹	700 E
Cl6-BZ#153	540 E
Cl7-BZ#170/#1901	65
Cl7-BZ#180	92
CI7-BZ#182/#187 ¹	51
Cl8-BZ#195	6.5
Cl9-BZ#206	6.8
Cl10-BZ#209	4.3

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	75	50-125
C18-BZ#202-C13	81	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Project: Client ID:

New Bedford Harbor

ETR: 0610189

Case:

336 0-1 N/A

Lab ID: 0610189-13E

N/A

Associated Blank: SS111506B09

Matrix:

Sediment

Concentration Units: μg/Kg

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
10/24/06	10/27/06	11/15/06	11/30/06	56.4	5.81	2	10	TLW

Parameter	Result
Cl2-BZ#5/#81	71
Cl3-BZ#18	160
Cl3-BZ#28/#311	760
Cl4-BZ#44	300
Cl4-BZ#52	630
Cl4-BZ#43/#491	500
C14-BZ#66	320
C15-BZ#101/#841	1100
C15-BZ#87	360
C17-BZ#184	3.0 U
Cl5-BZ#105	320
C15-BZ#118	820
C17-BZ#183	30
Cl6-BZ#167/#1281	180
Cl6-BZ#138/#1631	710
Cl6-BZ#153	560
Cl7-BZ#170/#1901	66
Cl7-BZ#180	97
Cl7-BZ#182/#187'	55
Cl8-BZ#195	9.2
Cl9-BZ#206	7.9
Cl10-BZ#209	3.0 U

^{1 =} These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	96	50-125
Cl8-BZ#202-C13	92	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project:

Apex Environmental, Inc.

Client ID:

Case:

Matrix:

New Bedford Harbor

D: 337 0-1

N/A

Sediment

SDG: N/A

Lab Code: MA00030

ETR: 0610189

Lab ID: 0610189-14

Associated Blank: SS111506B09

Concentration Units:

μg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
10/24/06	10/27/06	11/15/06	11/29/06	41.0	5.72	2	1	TLW

Parameter	Result
Cl2-BZ#5/#81	600
Cl3-BZ#18	1500 E
Cl3-BZ#28/#31'	7900 E
Cl4-BZ#44	1800 E
Cl4-BZ#52	2400 E
Cl4-BZ#43/#491	2900 E
C14-BZ#66	3500 E
Cl5-BZ#101/#84'	3400 E
CI5-BZ#87	1200 E
C17-BZ#184	0.43 U
C15-BZ#105	1200 E
Cl5-BZ#118	2700 E
CI7-BZ#183	89
Cl6-BZ#167/#1281	460
CI6-BZ#138/#1631	1900 E
Cl6-BZ#153	1500 E
Cl7-BZ#170/#1901	210
Cl7-BZ#180	310
Cl7-BZ#182/#187 ¹	180
C18-BZ#195	24
Cl9-BZ#206	25
Cl10-BZ#209	6.3

^{1 =} These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	79	50-125
Cl8-BZ#202-C13	83	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

 \boldsymbol{U} - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project: Client ID:

Apex Environmental, Inc.

New Bedford Harbor

337 0-1

Case:

Matrix:

N/A

Sediment

SDG: N/A Lab Code: MA00030 ETR: 0610189

Lab ID: 0610189-14E

Associated Blank: SS111506B09

μg/Kg Concentration Units:

				,				, · · ·
Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor_	Analyst
10/24/06	10/27/06	11/15/06	11/30/06	41.0	5.72	2	20	TLW

Parameter	Result
Cl2-BZ#5/#81	680
Cl3-BZ#18	1700
Cl3-BZ#28/#311	9300
Cl4-BZ#44	2100
Cl4-BZ#52	2900
Cl4-BZ#43/#491	3400
Cl4-BZ#66	4000
Cl5-BZ#101/#841	4000
Cl5-BZ#87	1300
C17-BZ#184	8.5 U
Cl5-BZ#105	1200
Cl5-BZ#118	2900
C17-BZ#183	96
Cl6-BZ#167/#1281	480
Cl6-BZ#138/#1631	2000
Cl6-BZ#153	<u>1600</u>
Cl7-BZ#170/#190'	220
Cl7-BZ#180	330
Cl7-BZ#182/#187'	210
Cl8-BZ#195	30
Cl9-BZ#206	28
C110-BZ#209	8.5 U

¹ = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)		
Cl3-BZ#19-C13	96	50-125		
Cl8-BZ#202-C13	101	50-125		

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

12/01/06 15:33

Blank PCB by GC/MS

Client:

Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Project: Client ID:

New Bedford Harbor

ETR: 0610189

Case:

Blank N/A

N/A

Lab ID: SS111506B09 Associated Blank: N/A

Matrix:

Sediment

Concentration Units:

μg/Kg

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	11/15/06	11/29/06	100	5.00	2	1	TLW

Parameter	Result
Cl2-BZ#5/#81	0.40 U
Cl3-BZ#18	0.20 U
Cl3-BZ#28/#311	0.40 U
Cl4-BZ#44	0.20 U
C14-BZ#52	0.20 U
Cl4-BZ#43/#491	0.40 U
Cl4-BZ#66	0.20 U
C15-BZ#101/#841	0.40 U
Cl5-BZ#87	0.20 U
C17-BZ#184	0.20 U
Cl5-BZ#105	0.20 U
Cl5-BZ#118	0.20 U
C17-BZ#183	0.20 U
Cl6-BZ#167/#1281	0.40 U
Cl6-BZ#138/#1631	0.40 U
Cl6-BZ#153	0.20 U
Cl7-BZ#170/#190 ¹	0.40 U
C17-BZ#180	0.20 U
C17-BZ#182/#187 ¹	0.40 U
Cl8-BZ#195	0.20 U
Cl9-BZ#206	0.20 U
Cl10-BZ#209	0.20 U

^{1 =} These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	86	50-125
C18-BZ#202-C13	90	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Laboratory Control Summary PCB by GC/MS



Apex Environmental, Inc. **New Bedford Harbor**

Laboratory Control Sample N/A SDG: N/A

Sediment Matrix:

Lab Code: MA00030 ETR: 0610189

Lab ID: See Below Associated Blank: SS111506B09

Concentration Units: μg/Kg

Date Collected	Date Received		ח	ate Extracted		Percent Soli	d	Analy	st st
N/A			D.	11/15/06		100	-	TLW	
			CC11		CC111				
Lab ID:	SS111506B	109	2211	1506LCS06		506LCSD06			
	Blank		_	LCS		LCSD	0/ PPP	Į.	Recovery
Parameter	Conc.			% Recovery		% Recovery	% RPD	Limit	Limits
Cl2-BZ#5/#81	0.40	U	4.8	60	4.5	56	6	50	40-140
Cl3-BZ#18	0.20	U	5.0	62	5.0	62	0	50	40-140
Cl3-BZ#28/#311	0.40	U	9.9	62	9.5	59	4	50	40-140
Cl4-BZ#44	0.20	U	4.9	61	4.9	61	11	50	40-140
C14-BZ#52	0.20	U	5.0	62	4.9	61	1	50	40-140
C14-BZ#43/#491	0.40	U	5.5	69	5.8	72	5	50	40-140
C14-BZ#66	0.20	U	5.7	71	5.5	68	4	50	40-140
C15-BZ#101/#841	0.40	U	5.8	72	6.0	74	3	50	40-140
C15-BZ#87	0.20	U	5.0	62	5.0	63	1	50	<u>40</u> -140
Cl5-BZ#105	0.20	U	5.7	71	5.8	72	1	50	40-140
Cl5-BZ#118	0.20	U	5.4	67	5.3	67	0	50	40-140
C17-BZ#183	0.20	U	5.9	74	6.2	77	5	50	40-140
Cl6-BZ#167/#1281	0.40	U	12	72	13	80	11	50	40-140
Cl6-BZ#138/#1631	0.40	U	5.1	64	5.3	66	3	50	40-140
Cl6-BZ#153	0.20	U	5.9	73	6.1	76	3	50	40-140
Cl7-BZ#170/#1901	0.40	U	5.1	63	5.6	70	10	50	40-140
C17-BZ#180	0.20	U	5.6	70	6.3	79	12	50	40-140
Cl7-BZ#182/#1871	0.40	U	6.3	78	6.7	84	7_	50	40-140
C18-BZ#195	0.20	U	5.7	72	6.3	78	9	50	40-140
C19-BZ#206	0.20	U	6.0	74	6.6	82	10	50	40-140
Cl10-BZ#209	0.20	U	6.0	76	6.5	82	8	50	40-140

¹ = These two Congeners are reported as a co-eluting pair.

			Acceptance	
Surrogate	% Re	Range (%)		
C13-BZ#19-C13	75	73	50-125	
C18-BZ#202-C13	73	81	50-125	

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result. 12/01/06 14:59

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH)

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project:

New Bedford Harbor

ETR: 0610189

Client ID:

325 0-1

Sediment

Lah

Result

880000

Lab ID: 0610189-06
Associated Blank: ES111506B10

Case: Matrix:

Parameter

C₉-C₁₈ Aliphatics ¹

N/A SDG:

N/A

Concentration Units: µg/Kg

				T ~ .		<u> </u>	F: 1	D'I d'	, <u>, , , , , , , , , , , , , , , , , , </u>
Date	Date	Date	Percent	Sample		Date	Final	Dilution	1
Collected	Received	Extracted	Solid	Amount (g)	Fraction	Analyzed	Volume (ml)	Factor	Analyst
10/25/06	10/27/06	11/15/06	16.5	10.70	Aromatic	11/22/06	1	1	JBS
10/25/06	10/27/06	7/06 11/15/06	46.5		Aliphatic	11/22/06	1	1	JBS

C ₁₉ -C ₃₆ Aliphatics ¹	2200000
$\frac{C_{19} - C_{36}}{C_{11} - C_{22}}$ Aromatics ^{1,2}	1000000
Unadjusted C ₁₁ -C ₂₂ Aromatics ¹	1100000
Naphthalene	1000 U
2-Methylnaphthalene	1000 U
Acenaphthylene	1000 U
Acenaphthene	1000 U
Fluorene	1000 U
Phenanthrene	2400
Anthracene	1200
Fluoranthene	8500
Pyrene	10000
Benzo(a)anthracene	5700
Chrysene	5200
Benzo(b)fluoranthene	5600
Benzo(k)fluoranthene	2400
Benzo(a)pyrene	4100
Indeno(1,2,3-cd)pyrene ³	3700
Dibenzo(a,h)anthracene ³	3700
Benzo(g,h,i)perylene	2800

³ = Values reported reflect their sum.

Extraction Surrogate	% Recovery	Acceptance Range (%)
5-alpha Androstane	68	40-140
ortho-Terphenyl	66	40-140
Fractionation Surrogate		
Biphenyl	92	40-140
2-Fluorobiphenyl	88	40-140

N/A - Not Applicable

⁼ Range concentration excludes the concentration of any surrogate(s) and/or internal standards eluting in that range.

² = C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

Project: Client ID:

Client:

Apex Environmental, Inc.

SDG:

New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

1100000

Lab ID: 0610189-07

327 0-1

N/A

N/A

Associated Blank: ES111506B10 Concentration Units:

Matrix:

C₀-C₁₈ Aliphatics ¹

Sediment

Date Collected	Date Received	Date Extracted	Percent Solid	Sample Amount (g)	Fraction	Date Analyzed	Final Volume (ml)	Dilution Factor	Analyst
					Aromatic	11/27/06	1	1	JBS
10/25/06	10/27/06	11/15/06	36.6	10.83	Aliphatic	11/27/06	1	1	JBS
Parameter						Resu	lt		

C ₉ C ₁₈ 1 Hiphaties	
C ₁₉ -C ₃₆ Aliphatics ¹	2300000
C ₁₁ -C ₂₂ Aromatics ^{1,2}	1000000
Unadjusted C ₁₁ -C ₂₂ Aromatics ¹	1000000
Naphthalene	1300 U
	1300 U
2-Methylnaphthalene	
Acenaphthylene	2100
Acenaphthene	1300 U
Fluorene	1300
Phenanthrene	1500
Anthracene	1300 U
Fluoranthene	3900
Pyrene	4800
Benzo(a)anthracene	1700
Chrysene	1700
Benzo(b)fluoranthene	2400
Benzo(k)fluoranthene	1300 U
Benzo(a)pyrene	1700
Indeno(1,2,3-cd)pyrene ³	2500 U
Dibenzo(a,h)anthracene ³	2500 U
Benzo(g,h,i)perylene	1300 U

3 = Values reported reflect their sum

Extraction Surrogate	% Recovery	Acceptance Range (%)
5-alpha Androstane	73	40-140
ortho-Terphenyl	84	40-140
Fractionation Surrogate	- '	
Biphenyl	94	40-140
2-Fluorobiphenyl	89	40-140

N/A - Not Applicable

⁼ Range concentration excludes the concentration of any surrogate(s) and/or internal standards eluting in that range.

² = C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

Client ID:

Client:

Apex Environmental, Inc.

New Bedford Harbor Project:

333 0-1

N/A

SDG: N/A Lab Code: MA00030

Result

200000

ETR: 0610189

Lab ID: 0610189-10

Associated Blank: ES111506B10

Matrix:

Parameter

C₉-C₁₈ Aliphatics ¹

Sediment

Concentration Units: µg/Kg

Date Collected	Date Received	Date Extracted	Percent Solid	Sample Amount (g)	Fraction	Date Analyzed	Final Volume (ml)	Dilution Factor	Analyst
10/21/06	10/07/06	11/15/06	54.3	10.17	Aromatic	11/27/06	1	11	JBS
10/24/06	10/27/06	11/15/06	54.3	10.17	Aliphatic	11/27/06	1	1	JBS

C ₁₉ -C ₃₆ Aliphatics ¹	830000
C ₁₁ -C ₂₂ Aromatics ^{1,2}	320000
Unadjusted C ₁₁ -C ₂₂ Aromatics ¹	330000
Naphthalene	910 U
2-Methylnaphthalene	910 U
Acenaphthylene	910 U
Acenaphthene	910 U
Fluorene	910 U
Phenanthrene	910 U
Anthracene	910 U
Fluoranthene	1800
Pyrene	2700
Benzo(a)anthracene	1400
Chrysene	1200
Benzo(b)fluoranthene	1600
Benzo(k)fluoranthene	910 U
Benzo(a)pyrene	1300
Indeno(1,2,3-cd)pyrene ³	1800 U
Dibenzo(a,h)anthracene ³	1800 U
Benzo(g,h,i)perylene	910 U

^{3 =} Values reported reflect their sum

- values reported refrect t	men sum.	Acceptance
Extraction Surrogate	% Recovery	Range (%)
5-alpha Androstane	71	40-140
ortho-Terphenyl	76	40-140
Fractionation Surrogate		
Biphenyl	89	40-140
2-Fluorobiphenyl	85	40-140

N/A - Not Applicable

¹ = Range concentration excludes the concentration of any surrogate(s) and/or internal standards eluting in that range.

² = C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

Client: Project:

Date

Collected

10/24/06

Apex Environmental, Inc.

New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

Lab ID: 0610189-12

Associated Blank: ES111506B10

JBS

Client ID: Case:

Parameter

C₉-C₁₈ Aliphatics ¹ C₁₉-C₃₆ Aliphatics ¹

 $\overline{C_{11}}$ - C_{22} Aromatics ^{1,2}

Unadjusted C₁₁-C₂₂ Aromatics ¹

335 0-1

N/A SDG:

N/A

	Matrix:	Sediment				Conce	ntration Unit	ts: μg/Kg
Date Received	Date Extracted	Percent Solid	Sample Amount (g)	Fraction	Date Analyzed	Final Volume (ml)	Dilution Factor	Analyst
10/07/07	11/15/06	64.2	10.54	Aromatic	11/22/06	1	_ 1	JBS
10/27/06	11/15/06	64.3	10.54	4.11.1	11/00/06	1	1	TDC

Aliphatic

11/22/06

Result

150000

650000

430000

520000

Naphthalene	800	
2-Methylnaphthalene	740	U
Acenaphthylene	740	U
Acenaphthene	1500	
Fluorene	2200	
Phenanthrene	15000	
Anthracene	4000	
Fluoranthene	16000	
Pyrene	16000	
Benzo(a)anthracene	7400	
Chrysene	7700	
Benzo(b)fluoranthene	7900	
Benzo(k)fluoranthene	2900	
Benzo(a)pyrene	6000	
Indeno(1,2,3-cd)pyrene ³	4600	
Dibenzo(a,h)anthracene ³	4600	
Benzo(g,h,i)perylene	3100	

3 = Values reported reflect their sum

Extraction Surrogate	% Recovery	Acceptance Range (%)
5-alpha Androstane	72	40-140
ortho-Terphenyl	78	40-140
Fractionation Surrogate		
Biphenyl	86	40-140
2-Fluorobiphenyl	81	40-140

N/A - Not Applicable

^{1 =} Range concentration excludes the concentration of any surrogate(s) and/or internal standards eluting in that range.

² = C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

Project: Client ID:

Client:

Apex Environmental, Inc.

New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

Lab ID: 0610189-13

Associated Blank: ES111506B10

120000

Matrix:

C₉-C₁₈ Aliphatics ¹

N/A

336 0-1 Sediment

SDG: N/A

Concentration Units: µg/Kg

Date Collected	Date Received	Date Extracted	Percent Solid	Sample Amount (g)	Fraction	Date Analyzed	Final Volume (ml)	Dilution Factor	Analyst
10/04/06	10/27/06	11/15/06		10.00	Aromatic	11/22/06	1	1	JBS
10/24/06	10/27/06	11/15/06	56.4	10.98	Aliphatic	11/22/06	1	1	JBS
	Parameter					Resu	lt		

C ₁₉ -C ₃₆ Aliphatics ¹	870000	
C ₁₁ -C ₂₂ Aromatics ^{1,2}	360000	
Unadjusted C ₁₁ -C ₂₂ Aromatics ¹	380000	
Naphthalene	810 U	
2-Methylnaphthalene	810 U	
Acenaphthylene	810 U	
Acenaphthene	810 U_	
Fluorene	810 U	
Phenanthrene	1600	
Anthracene	810 U	
Fluoranthene	3500	
Pyrene	5400	
Benzo(a)anthracene	2000	
Chrysene	2400	
Benzo(b)fluoranthene	2900	
Benzo(k)fluoranthene	1100	
Benzo(a)pyrene	1600	
Indeno(1,2,3-cd)pyrene ³	1600 U	
Dibenzo(a,h)anthracene 3	1600 U	
Benzo(g,h,i)perylene	940	

3 = Values reported reflect their sum

- values reported reflect t	nen sum.	Acceptance		
Extraction Surrogate	% Recovery	Range (%)		
5-alpha Androstane	72	40-140		
ortho-Terphenyl	75	40-140		
Fractionation Surrogate				
Biphenyl	81	40-140		
2-Fluorobiphenyl	77	40-140		

N/A - Not Applicable

^{1 =} Range concentration excludes the concentration of any surrogate(s) and/or internal standards eluting in that range.

² = C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

Client:

Apex Environmental, Inc.

Lab Code: MA00030 ETR: 0610189

Project: Client ID:

New Bedford Harbor

Lab ID: ES111506B10

Case:

Blank N/A

SDG: N/A Associated Blank: N/A

Matrix:

Sediment

Concentration Units: µg/Kg

Date	Date	Date	Percent	Sample		Date	Final	Dilution	
Collected	Received	Extracted	Solid	Amount (g)	Fraction	Analyzed	Volume (ml)	Factor	Analyst
N/A N/A	27/4	11/15/06	100		Aromatic	11/22/06	1	1	JBS
	N/A	11/15/06 100	10.00	Aliphatic	11/22/06	1	1	JBS	
	p	arameter				Resu	lt	<u> </u>	

C ₉ -C ₁₈ Aliphatics ¹	3000	U
C_{19} - C_{36} Aliphatics 1	4000	U
C_{11} - C_{22} Aromatics 1,2	8500	U
Unadjusted C ₁₁ -C ₂₂ Aromatics ¹	8500	U
Naphthalene	500	U
2-Methylnaphthalene	500	U
Acenaphthylene	500	U
Acenaphthene	500	U
Fluorene	500	U
Phenanthrene	500	U
Anthracene	500	U
Fluoranthene	500	U
Pyrene	500	U
Benzo(a)anthracene	500	U
Chrysene	500	U
Benzo(b)fluoranthene	500	U
Benzo(k)fluoranthene	500	U
Benzo(a)pyrene	500	U
Indeno(1,2,3-cd)pyrene ³	1000	U
Dibenzo(a,h)anthracene ³	1000	U
Benzo(g,h,i)perylene	500	U

^{3 =} Values reported reflect their sum.

Extraction Surrogate	% Recovery	Acceptance Range (%)
5-alpha Androstane	70	40-140
ortho-Terphenyl	74	40-140
Fractionation Surrogate		
Biphenyl	88	40-140
2-Fluorobiphenyl	86	40-140

N/A - Not Applicable

⁼ Range concentration excludes the concentration of any surrogate(s) and/or internal standards eluting in that range.

² = C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

Laboratory Control Summary Extractable Petroleum Hydrocarbons by GC/FID

Client: Project:

Matrix:

Apex Environmental, Inc.

New Bedford Harbor

Lab Code: MA00030

ETR: 0610189 Lab ID: See Below

Laboratory Control Sample N/A SDG:

Sediment

Associated Blank: ES111506B10

Concentration Units: µg/Kg

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	11/15/06	100	JBS

Lab ID:	ES111506B10		ES111506LCS07		ES111506LCSD07				
	Blank LCS		LCSD			RPD % Recovery			
Parameter	Conc.		Conc.	% Recovery	Conc.	% Recovery	% RPD	Limit	Limits
Naphthalene	500	U	5800	58	5700	57	2	25_	40-140
2-Methylnaphthalene	500	U	6300	63	6200	62	2	25	40-140
Acenaphthylene	500	U	6800	68	6700	67	2	25	40-140
Acenaphthene	500	U	6900	69	6800	68	2	25	40-140
Fluorene	500	U	7400	75	7300	73	2	25	40-140
Phenanthrene	500	U	7700	77	7600	75_	2	25	40-140
Anthracene	500	U	7600	76	7400	75	22	25	40-140
Fluoranthene	500	U	7600	76	7500	75	2	25	<u>40-140</u>
Pyrene	500	U	7900	79	7700	77	2	25	40-140
Benzo(a)anthracene	500	U	7800	78	7600	76	2	25	40-140
Chrysene	500	U	7900	79	7800	78	1	25	40-140
Benzo(b)fluoranthene	500	U	8000	80	7900	79	2	25	40-140
Benzo(k)fluoranthene	500	U	7800	78	7600	76	2	25	40-140
Benzo(a)pyrene	500	U	8100	81	8000	80	1	25	40-140
Indeno(1,2,3-cd)pyrene ³	1000	U	16000	80	16000	79	1	25	40-140
Dibenzo(a,h)anthracene 3	1000	U	16000	80	16000	79	1	25	40-140
Benzo(g,h,i)perylene	500	U	8100	81	8000	80	2	25	40-140
n-Nonane (C9)	500	U	3400	34	3600	36	6	2 5	30-140
n-Decane (C10)	500	U	4800	48	5100	51	6	25	40-140
n-Dodecane (C12)	500	U	5900	59	6300	63	7	25	40-140
n-Tetradecane (C14)	500	U	6800	68	7100	71	5	25	40-140
n-Hexadecane (C16)	500	U	7300	73	7600	76	3	25	40-140
n-Octadecane (C18)	500	U	7700	77	8000	80	3	25	40-140
n-Nonadecane (C19)	500	U	8000	80	8300	83	3	25	40-140
n-Eicosane (C20)	500	U	7900	79	8100	81	3	25	40-140
n-Docosane (C22)	500	U	7900	79	7900	79	0	25	40-140
n-Tetracosane (C24)	500	U	8000	80	8000	80	1	25	40-140
n-Hexacosane (C26)	500	U	7900	79	8000	80	1	25	40-140
n-Octacosane (C28)	500	U	7800	78	7800	78	0	25	40-140
n-Triacontane (C30)	500	U	7800	78	7800	78	0	25	40-140
n-Hexatriacontane (C36)	500	U	8400	84	8400	84	0	25	40-140

⁼ Range concentration excludes the concentration of any surrogate(s) and/or internal standards eluting in that range.

³ = Values reported reflect their sum.

Extraction Surrogate	% Rec	covery	Acceptance Range (%)
5-alpha Androstane	73	76	40-140
ortho-Terphenyl	78	76	40-140
Fractionation Surrogate	_		
Biphenyl	85	82	40-140
2-Fluorobiphenyl	82	80	40-140

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

Laboratory Control Summary Extractable Petroleum Hydrocarbons by GC/FID

Client:

Apex Environmental, Inc.

Lab Code: MA00030 ETR: 0610189

Project: Client ID:

New Bedford Harbor Laboratory Control Sample

Lab ID: See Below

SDG:

Matrix:

Sediment

Associated Blank: ES111506B10

Concentration Units: µg/Kg

Ĺ	Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
	N/A	N/A	11/15/06	100	JBS

Aliphatic Breakthrough Criteria

	Amphant Divastarough	CI ICCI III	
Lab ID:	ES111506LCS07	ES111506LCSD07	
Parameter	LCS % Breakthrough	LCSD % Breakthrough	% Breakthrough Maximum Limit
Naphthalene	0.1	0.1	5
2-Methylnaphthalene	0.2	0.2	5

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

TOTAL METALS

N/A

Client:

Apex Environmental, Inc.

SDG:

Lab Code: MA00030

Project:

New Bedford Harbor

ETR: 0610189

WOODS HOLE LABSCase:

Lab ID: 0610189-06

Client ID: 325 0-1 Matrix: Sediment Percent Solid: 46.5

N/A

Concentration Units: mg/Kg Date Collected: 10/25/06

Date Received: 10/27/06

			Reporting		Date	Date	Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Prepared	Method	Analyst
Arsenic	20		0.17	5	11/10/06	11/08/06	6020A	LCP
Barium	330		0.17	5	11/10/06	11/08/06	6020A	LCP
Cadmium	5.1		0.067	5	11/10/06	11/08/06	6020A	LCP
Chromium	200		1.7	5	11/10/06	11/08/06	6020A	LCP
Lead	3000		0.67	20	11/10/06	11/08/06	6020A	LCP
Mercury	7.3		0.20	20	11/09/06	11/08/06	7471A	LMR
Selenium	3.0		0.67	5	11/10/06	11/08/06	6020A	LCP
Silver	1.2		0.17	5	11/13/06	11/08/06	6020A	LMR

N/A

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project:

New Bedford Harbor

SDG:

ETR: 0610189

WOODS HOLE LABSCase:

N/A

Lab ID: 0610189-07

Client ID: 327 0-1 Matrix: Sediment Percent Solid: 36.6

Concentration Units: mg/Kg Date Collected: 10/25/06

Date Received: 10/27/06

			Reporting		Date	Date	Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Prepared	Method	Analyst
Arsenic	49		0.20	5	11/10/06	11/08/06	6020A	LCP
Barium	83		0.20	5	11/10/06	11/08/06	6020A	LCP
Cadmium	3.7		0.080	5	11/10/06	11/08/06	6020A	LCP
Chromium	270		2.0	5	11/10/06	11/08/06	6020A	LCP
Lead	360		0.20	5	11/10/06	11/08/06	6020A	LCP
Mercury	2.0		0.064	5	11/09/06	11/08/06	7471A	LMR
Selenium	3.5		0.80	5	11/10/06	11/08/06	6020A	LCP
Silver	2.9		0.20	5	11/13/06	11/08/06	6020A	LMR

N/A

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: WOODS HOLE LABSCASE:

New Bedford Harbor

SDG:

ETR: 0610189

Lab ID: 0610189-10

Client ID: 333 0-1 Matrix: Sediment Percent Solid: 54.3

N/A

Concentration Units: mg/Kg Date Collected: 10/24/06

Date Received: 10/27/06

Parameter			Reporting		Date	Date Prepared	Analytical Method	
	Resuit	Qualifier	Limit	Dilution	Analyzed			Analyst
Arsenic	12		0.14	5	11/10/06	11/08/06	6020A	LCP
Barium	59	- PPPP	0.14	5	11/10/06	11/08/06	6020A	LCP
Cadmium	7.7		0.058	5	11/10/06	11/08/06	6020A	LCP
Chromium	360		1.4	5	11/10/06	11/08/06	6020A	LCP
Lead	270		0.14	5	11/10/06	11/08/06	6020A	LCP
Mercury	1.3		0.045	5	11/09/06	11/08/06	7471A	LMR
Selenium	2.1		0.58	5	11/10/06	11/08/06	6020A	LCP
Silver	1.8		0.14	5	11/13/06	11/08/06	6020A	LMR

N/A

Client: Project:

WOODS NOLE LABSCase:

Apex Environmental, Inc.

SDG:

New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

Lab ID: 0610189-12

Concentration Units: mg/Kg

Date Collected: 10/24/06
Date Received: 10/27/06

Client ID: 335 0-1
Matrix: Sediment
Percent Solid: 64.3

N/A

			Reporting		Date	Date	Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Prepared	Method	Analyst
Arsenic	19		0.12	5	11/10/06	11/08/06	6020A	LCP
Barium	52		0.12	5	11/10/06	11/08/06	6020A	LCP
Cadmium	2.3		0.046	5	11/10/06	11/08/06	6020A	LCP
Chromium	94		1.2	5	11/10/06	11/08/06	6020A	LCP
Lead	340		0.12	5	11/10/06	11/08/06	6020A	LCP
Mercury	0.98		0.038	5	11/09/06	11/08/06	7471A	LMR
Selenium	1.4		0.46	5	11/10/06	11/08/06	6020A	LCP
Silver	0.66		0.11	5	11/13/06	11/08/06	6020A	LMR

Client:

Apex Environmental, Inc.

Lab Code: MA00030

WOODS HOLE LABSCase:

New Bedford Harbor

ETR: 0610189

Client ID: 336 0-1

SDG: N/A

Lab ID: 0610189-13
Concentration Units: mg/Kg

Matrix: Sediment
Percent Solid: 56.4

N/A

Date Collected: 10/24/06
Date Received: 10/27/06

Parameter			Reporting		Date	Date Prepared	Analytical Method	Analyst
	Result	Qualifier	Limit	Dilution	Analyzed			
Arsenic	13		0.13	5	11/10/06	11/08/06	6020A	LCP
Barium	59		0.13	5	11/10/06	11/08/06	6020A	LCP
Cadmium	2.6	And the second s	0.051	5	11/10/06	11/08/06	6020A	LCP
Chromium	200		1.3	5	11/10/06	11/08/06	6020A	LCP
Lead	710		0.13	5	11/10/06	11/08/06	6020A	LCP
Mercury	1.3		0.043	5	11/09/06	11/08/06	7471A	LMR
Selenium	1.9	,	0.51	5	11/10/06	11/08/06	6020A	LCP
Silver	1.6		0.13	5	11/13/06	11/08/06	6020A	LMR

Blank Total Metals

Client: Project:

Apex Environmental, Inc.

New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

WOODS HOLE LABSCase:

N/A

SDG:

N/A

Lab ID: MS110606B06B
Concentration Units: mg/Kg

Client ID: Blank
Matrix: Sediment

Date Collected: N/A

Percent Solid: 100.0 Date Received: N/A

Parameter			Reporting		Date	Date Prepared	Analytical Method	
	Result	Qualifier	Limit	Dilution	Analyzed			Analyst
Arsenic	0.12	U	0.12	5	11/10/06	11/08/06	6020A	LCP
Barium	0.12	U	0.12	5	11/10/06	11/08/06	6020A	LCP
Cadmium	0.050	U	0.050	5	11/10/06	11/08/06	6020A	LCP
Chromium	1.2	U	1.2	5	11/10/06	11/08/06	6020A	LCP
Lead	0.12	U	0.12	5	11/10/06	11/08/06	6020A	LCP
Selenium	0.50	U	0.50	5	11/10/06	11/08/06	6020A	LCP

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Blank Total Metals

Client: Project:

Apex Environmental, Inc.

New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

WOODS HOLE LABSCase: N/A
Client ID: Blank

Percent Solid: 100.0

SDG: N/A

Lab ID: MS110606B05B Concentration Units: mg

Client ID: Blank
Matrix: Sediment

Date Collected: N/A

Date Received: N/A

Reporting Date Date Analytical Dilution Parameter Result Qualifier Limit Analyzed Prepared Method Analyst 0.12 U 0.12 11/08/06 6020A 11/13/06 **LMR** Silver

N/A - Not Applicable

Blank Total Metals

N/A

Client: Project:

WOODS HOLE LADSCASE:

Apex Environmental, Inc.

SDG:

New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

Lab ID: MS110606B07B

Concentration Units: mg/Kg

Date Collected: N/A

Date Received: N/A

Client ID: Blank
Matrix: Sediment
Percent Solid: 100.0

N/A

			Reporting		Date	Date	Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Prepared	Method	Analyst
Mercury	0.010	U	0.010	1	11/09/06	11/08/06	7471A	LMR

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Laboratory Control Sample - High Total Metals

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project:

New Bedford Harbor

ETR: 0610189

WOODS HOLE LABSCase: Client ID:

SDG: N/A N/A Lab Control Sample High

Lab ID: MS110606SLH03SLH Concentration Units: mg/Kg

Matrix: Sediment Percent Solid: 100.0

Date Collected: N/A Date Received: N/A

The state of the s	The state of the s		% Recovery
Parameter	Conc.	% Recovery	Limits
Arsenic	200	99	80-120
Barium	200	100	80-120
Cadmium	99	99	80-120
Chromium	200	100	80-120
Lead	190	96	80-120
Selenium	200	101	80-120

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

Laboratory Control Sample - Low Total Metals

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project:

New Bedford Harbor

ETR: 0610189

WOODS HOLE LADSCase: Client ID: Lab Control Sample Low

SDG: N/A N/A

Lab ID: MS110606SLL02SLL

Matrix: **Sediment** Percent Solid: 100.0

Concentration Units: Date Collected: N/A

Date Received: N/A

			% Recovery
Parameter	Conc.	% Recovery	Limits
Silver	2.2	108	80-120

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

Laboratory Control Sample Total Metals

Client: Project:

lient: Apex Environmental, Inc.

New Bedford Harbor

Case: N/A SDG: N/A
Client ID: Laboratory Control Sample

Matrix: Sediment Percent Solid: 100.0

Lab Code: MA00030

ETD 0000. MAROUS.

ETR: 0610189

Lab ID: MS110606SLC02SLC

Concentration Units: mg

Date Collected: N/A
Date Received: N/A

			% Recovery
Parameter	Conc.	% Recovery	Limits
Mercury	0.48	97	80-120

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

WET CHEMISTRY

Inorganics

N/A

Client: Project:

Apex Environmental, Inc.

New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

N/A

SDG:

Lab ID: 0610189-06

Date Collected: 10/25/06

Matrix: Sediment Percent Solid: 46.5

Client ID: 325 0-1

Date Received: 10/27/06

			Reporting		Date		Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Unit	Method	Analyst
Total Organic Carbon (Run 1)	3.7		0.01	1	11/15/06	%	9060	GJP
Total Organic Carbon (Run 2)	3.9		0.01	1	11/15/06	%	9060	GJP
Reactive Sulfide	79		6.6	25	11/15/06	mg/Kg	Ch.7/376.2	JAD

Inorganics

N/A

Client: Project: Apex Environmental, Inc.

New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

LABSCase:

N/A

SDG:

Lab ID: 0610189-07 Date Collected: 10/25/06

Client ID: 327 0-1 Matrix: **Sediment** Percent Solid: 36.6

Date Received: 10/27/06

			Reporting		Date		Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Unit	Method	Analyst
Total Organic Carbon (Run 1)	2.5		0.01	1	11/15/06	%	9060	GJP
Total Organic Carbon (Run 2)	2.2		0.01	1	11/15/06	%	9060	GJP
Reactive Sulfide	1300		100	500	11/15/06	mg/K.g	Ch.7/376.2	JAD

Inorganics

Client:

LABSCase:

Apex Environmental, Inc.

Lab Code: MA00030

Project:

New Bedford Harbor

ETR: 0610189

Client ID:

SDG: N/A

Lab ID: 0610189-10 Date Collected: 10/24/06

Matrix:

333 0-1 Sediment

N/A

Date Received: 10/27/06

Percent Solid: 54.3

			Reporting		Date		Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Unit	Method	Analyst
Total Organic Carbon (Run 1)	1.7		0.01	1	11/15/06	%	9060	GJP
Total Organic Carbon (Run 2)	2.0		0.01	1	11/15/06	%	9060	GJP
Reactive Sulfide	220		14	50	11/15/06	mg/Kg	Ch.7/376.2	JAD

Inorganics

Client: Project: Apex Environmental, Inc. **New Bedford Harbor**

Lab Code: MA00030

ETR: 0610189

N/A

SDG:

N/A

Lab ID: 0610189-12

Matrix:

Client ID: 335 0-1 Sediment

Date Collected: 10/24/06

Percent Solid: 64.3

Date Received: 10/27/06

			Reporting		Date		Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Unit	Method	Analyst
Total Organic Carbon (Run 1)	2.5		0.01	1	11/15/06	%	9060	GJP
Total Organic Carbon (Run 2)	2.7		0.01	1	11/15/06	%	9060	GJP
Reactive Sulfide	730		57	200	11/15/06	mg/Kg	Ch.7/376.2	JAD

Inorganics

Client: Project:

Apex Environmental, Inc. **New Bedford Harbor**

Lab Code: MA00030 ETR: 0610189

N/A

SDG: N/A Lab ID: 0610189-13

Client ID: 336 0-1 Matrix:

Date Collected: 10/24/06

Sediment Percent Solid: 56.4

Date Received: 10/27/06

			Reporting		Date		Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Unit	Method	Analyst
Total Organic Carbon (Run 1)	1.1	_	0.01	1	11/15/06	%	9060	GJP
Total Organic Carbon (Run 2)	1.2		0.01	1	11/15/06	%	9060	GJP
Reactive Sulfide	390		48	200	11/15/06	mg/Kg	Ch.7/376.2	JAD

Blank Inorganics

Client: Project:

Apex Environmental, Inc.

New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

WOODS HOLE LABSCASE:

se: N/A

SDG:

N/A

Lab ID: WS111506B23
Date Collected: N/A

Client ID: Blank
Matrix: Sediment
Percent Solid: 100

Date Received: N/A

			Reporting		Date Analytical			
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Unit	Method	Analyst
Reactive Sulfide	1.0	U	1.0	1	11/15/06	mg/Kg	Ch.7/376.2	JAD

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Blank Inorganics

N/A

Client:

Apex Environmental, Inc.

Project:

New Bedford Harbor

ETR: 0610189

ODS HOLE LABSCASE:

N/A SDG:

Lab ID: WS111606B08

Lab Code: MA00030

Client ID: Blank
Matrix: Sedim

Date Collected: N/A

Matrix: Sediment Percent Solid: 100

Date Received: N/A

			Reporting		Date		Analytical	
Parameter	Result	Qualifier	Limit	Dilution	Analyzed	Unit	Method	Analyst
Total Organic Carbon (Run 1)	0.01	U	0.01	1	11/15/06	%	9060	GJР
Total Organic Carbon (Run 2)	0.01	U	0.01	1	11/15/06	%	9060	GJP

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Laboratory Control Sample Inorganics

Client: Project: Apex Environmental, Inc.

SDG:

New Bedford Harbor

N/A

N/A

Client ID: Laboratory Control Sample

Matrix: Sediment Percent Solid: 100

Lab Code: MA00030

ETR: 0610189

Lab ID: WS111506L07

Date Collected: N/A Date Received: N/A

Parameter	Conc.	% Recover	% Recovery Limits
Reactive Sulfide	26	91	75-125

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

Standard Reference Material 1944 Inorganics

Client:

Apex Environmental, Inc.

Project:

New Bedford Harbor

Lab Code: MA00030

ETR: 0610189

LE LABSCase:

N/A SRM 1944

Client ID: Matrix: SDG: N/A

Date Collected: N/A

Lab ID: WS111606L194401

Matrix: Sediment
Percent Solid: 100

Date Received: N/A

Parameter	Conc.	% Recovery	% Recovery Limits
Total Organic Carbon (Run 1)	4.7	106	75-125
Total Organic Carbon (Run 2)	4.4	100	75-125

CHAIN OF CUSTODY RECORDS

Sample Receipt Checklist

	1		Page 1 of
Client: APEDIU	Receipt Date:	10/27/06	
Project: NB Harbor Phase TI	Log-in Date:	4	
ETR#: 6610189	Inspection by: 6	Login by: y	V
ALL SECTIONS BELOW MUST BE COMPLE	ETED	Comments / Notes	
Were samples shipped? Yes, FedEx / UPS / Other:			
No. WHG Courier pick-up / Hand	delivered	Sample storage refrigera	
Is bill of lading retained? Yes, Tracking #:		Sample storage freezer	#: <u></u>
No, Unavailable / (NA			
Number of coolers received for this project delivery:			
Indicate cooler temperature upon opening (if multiple coolers, record	l <u>all</u> temps):	Cooler 2:	Cooler 3:
Note: If <u>all</u> coolers are 2-6°C, use one checklist, if NOT, use separate <u>all</u> samples received <i>above</i> 6°C.			Cooler 5:
Cooler 1: Temperature(s) taken from: 45 IR Gun, 35 Temp. Bla	ank, / NA	Cooler 6:	Cooler 7:
Were samples received on ice? (Yes) / No		More:	
Chain-of-Custody present? (Yes) / No	·		
Complete? (Fest / No			
Custody seals present on Cooler? Yes / Yo		•	
on Bottles? Yes / No			
Intact? Yes / No / NA Note: Affix custody seals to back of this page.			
Were sample containers intact? (es) / No I	f No, list samples: >	ı	
Did VOA/VPH waters contain headspace (>5mm)? Yes / No (NA)I	f Yes, list samples: →		
, , , , , , , , , , , , , , , , , , , ,	/ No / NA If No, list samples: →		
Was a sufficient amount of sample received for each test indicated on (Yes) / No	the COC? If No, list samples: →		
f chemical preservation is appropriate - Were samples field preserved? Yes / No /	(NA)	Chemical preservation C samples?)K for ALL
C=HCl M=MeOH S=H ₂ SO4		Yes / No /	(N/A)
H=NaOH N=HNO ₃ Other: U= Unkn	nown		· Section 1
Preservation (pH) verified at lab for EVERY bottle? (Not: VOA / VPF	I / Sulfide)	If No, list samples below	<u>/:</u>
YES: <2 or >12 (CN) or NO			
f No, why?:			
Were samples received within hold time? (es)/No If	No, list samples: →		
Discrepancy between samples rec'd & COC? Yes / (No) If Y	Yes, list samples: →		
Was the Project Manager notified of any other problems? Yes /	No / NA		
Project Manager Acknowledgement: Date: 12	0/27/06	Please use back for any o	additional notes!

CHAIN O	F CUSTODY PAGE	3 of U	Date Rec'd in La		ALPH	A Job# OG tol89
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193 TEL: 508-822-9300 FAX: 508-822-3288	Project Information Project Name: NB Harlan			tion - Data Delivera EMAIL Add'l Deliverable	Billing	Information as Client info PO#:
Client: Apex Capacies, LLC Address: 115 Broad 5treet, 5/148200	Project Location: New BAH Project #: 6591,002 Project Manager: Qet Hy			uirements/Report L	imits	
50570-, MA 02110 Phone: 617-728 0070 X-113 Fax: 617-728-0080	ALPHA Quote #: Turn-Around Time		MAMCPPRESUL ☐ Yes 🖈 No ☐ Yes 🔀 No	Are MCP Analytical	Methods Required	ABLE CONFIDENCE PROTOCOLS Protocols) Required?
Email: Chyers Especially. Com These samples have been previously analyzed by Alpha Other Project Specific Requirements/Comm Min Details Limits = A5=0.5 pm, ABSMOTING = 0.001 ppm, EPH = 0.1 HOLD All 5	Date Due: nents/Detection Limits: Id=0.1ppm, Hg=0.0zppm/ 01ppm, TOC=0.140, RecS/f.	Confirmed if pre-exproved!) Time: (NI, Zn, Cr, Cyft= 150ppm)				SAMPLE HANDLING Filtration Done Not needed Lab to do Preservation Lab to do
ALPHA Lab ID (Lab Use Only) Sample ID		Sample Sampler's Initials	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200		(Please specify below) Sample Specific Comments
-2311 7.5-3.5 -3316 0-1	10241 OF 1010AP	SED KN	X			
7 719 0-1 -5 321 0-1	10/23/01 10/9AH	sed kinj	X			
- 1327 ()-1 -8328 ()-1	10/20/02 1216pm 10/20/08 174/AH	sed kill	XXX			
P 10 33 Ou)	10/25/08 128pm 1	UED ICH	メメメン	(X		
DPLEASE ANSWER QUESTIONS ABOVE! SYOUR PROJECT MA MCP or CT RCP? FORM NO: 01-01 (rev. 10-0CT-05)	Relinquished By:	Container Type Preservative Date/Time [[]]726701 4 pm []727-06 990	7710	ved By:	Date/Time 10-26-06-99-99-99-99-99-99-99-99-99-99-99-99-99	See reverse side.

PHA	CHAIN OF	CUSTODY	PAGE OF U	Date Rec'd I	n Lab:	ALP	HA Job#: <i>06/018</i> 9
WESTBORO, MA TEL: 508-898-9220	RAYNHAM,MA TEL: 508-822-9300	Project Information			rmation - Data Deli		ng Information
1	FAX: 508-822-3288	Project Name: Vew	Bedond Huber	-	EMAIL ☐ Add'l Deliver	· }	me as Client info PO#:
Client Information		Project Location:		Regulatory F	Requirements/Repo		
Client: AP&>		Project #: 6591,0	07	State /Fed Pr		Criteria	
	Broto St	Project Manager:	MYERS			ar.	
	<u> </u>	ALPHA Quote #:	· .	MAMCPPRI	ESUMPTIVE CERTA	INTYCTREASO	NABLE CONFIDENCE PROTOCOLS
	-72y -0070	Turn-Around Time		☐ Yes 🎜 N		rtical Methods Requir	
Fax: 617	-728 -0080	B ⊃Standard □ R	USH (only confirmed if pre-approved!)	☐ Yes _DV	Na CTROP (R	easonable Confidence	ce Protocols) Required?
Email:	A PARTIE AND A PAR	Date Due:	Time:	2/3	12 H		SAMPLEHANDLING
Other Project S	ave been previously analyzed by Alpha	uente/Detection Limite:		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	を世史		/ / Filtration
ty to per	pecific Requirements/Commisting Limber AC=0.07P	rm, Hs=00zpomi	cid=a joph, tac=0.1	ANALYSIS Stracklass	1753	//////	/ / Done Not needed
Rec SVI	= Joppons EPH=0.01pp	my pebsumoting:	0.00 pon,			' / / / /	│ │ │ Lab to do │ │ Preservation │ │ │
Ny	ch, cr, Cr, Pb = 1ppm	HOLDAIL	-somples	1/0/2/	333		Lab to do (Please specify below)
ALPHA Lab ID (Lab Use Only)	Sample ID	Date	n Sample Sampler Time Matrix Initials		Z/K/R/ /	/ / / / /	Sample Specific Comments
	-334 (1-)	10/24/	SED KUN	X			
- 12	-335 (H)	40/20/06 12	SED KIN	XXX	XX		
- 3	37/ (2-)	10724104 /30	2pm SEO KUN	XXX			
- 4	337 (2)	143 1107	10m SEO KIN	V			
	337 ()-1	10/ - 1/00 2	10pg 300 1-11				
							* * ;
September 1997							
<u>D</u>							
PLEASE ANSWE	R QUESTIONS ABOVE!		Container Type				Please print clearly, legibly and
is your	PROJECT		Preservative				completely. Samples can not be logged in and turnaround time clock
7 1	or CT RCP?	Relinquished By:	Date/Time		Received By:	Date/Time	will not start until any ambiguities are resolved. All samples submitted are
FORM NO: 01-01 (rev. 10-0		Mugader	1027-069.16	faul y	glust /	10-26-06 41 10-20-06 9 10/27/06 0	subject to Alpha's Payment Terms. See reverse side.
	faul	Sulut	1027000	745 A JU	my//m	10/27/06 0	745 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997

Certificate Program Summary



Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

Connecticut Department of Public Health Certificate No.: PH-0141 - Wastewater (General Chemistry: 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2, 365.2, 405.1, 413.1, COD HACH 8000; Metals: 200.7, 245.1; Organics: 608, 624, 625). Solid Waste/Soil (General Chemistry: 1010, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

Florida Department of Health Certificate No.: E87814 - Secondary NELAP Accreditation for Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, SM2320B, 335.2, 365.2, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). Solid and Hazardous Waste (General Chemistry: 9010/9014, 9045, 9050, 9056, 9060, 9065; Metals: 6010, 6020, 7041, 7060, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Louisiana Department of Environmental Quality Certificate No.: 03090 - Primary NELAP Accrediting Authority for Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). Solid and Hazardous Waste (General Chemistry: 1010, 1311, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7060, 7191, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Maine Department of Human Services Certificate No.: MA030 - Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

Massachusetts Department of Environmental Protection Certificate No.: M-MA030 - Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

New Hampshire Department of Environmental Services Certificate No.: 220604 - Secondary NELAP Accreditation for Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, COD HACH 8000, SM2540G; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625).

New Jersey Department of Environmental Protection Certificate No.: MA015 - Solid and Hazardous Waste (General Chemistry: 1010, 1311, 3060, 7196, 9010/9014, 9045, 9056, 9060; Metals: 3010, 3015, 3020, 3050, 3051, 6010, 6020, 7041, 7060, 7131, 7191, 7211, 7421, 7470, 7471, 7520, 7740, 7761, 7841; Organics: 3510, 3545, 5030, 5035, 3620, 3630, 3640, 3660, 8081, 8082, 8100, 8260, 8270).

New York Department of Health Certificate No.: 11627 - Secondary NELAP Accreditation for Wastewater (Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). Solid and Hazardous Waste (Metals: 6010, 7041, 7060, 7470, 7471, 7740; Organics: 8081, 8082, 8260, 8270).

Rhode Island Department of Health Certificate No.: 00064 - Chemistry: Organic and Inorganic in Surface Water, Wastewater/Sewage and Soil (Method numbers not specified with certificate.)

U.S. Army Corps of Engineers - General Chemistry: 9010/9014, 9071/418.1, 9060; Organics: 8081, 8082, 8260, 8270, 8270-SIM; Metals: 6010, 6020, 7000.

Department of the Navy - General Chemistry: 9010/9014, 9060; Organics: 8081, 8082, 8015-mod, 8260, 8270, 8270-SIM; Metals: 6010, 6020.



ANALYTICAL REPORT

Prepared for:

Apex Environmental, Inc. 286 Congress Street Suite 610 Boston, MA 02210

Project:

New Bedford Harbor

ETR:

0611024

Report Date:

December 06, 2006

Certifications and Accreditations

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220602
Rhode Island 64
New Jersey MA015
Maine MA030
New York 11627
Louisiana 03090
Army Corps of Engineers
Department of the Navy
Florida E87814

This report shall not be reproduced except in full, without written approval from the laboratory.



Sample ID Cross Reference

Client:

Apex Environmental, Inc.

Project: New Bedford Harbor

Lab Code: MA00030

ETR: 0611024

Lab Sample ID	Client Sample ID
0611024-01	501 grab
0611024-02	502 grab
0611024-03	503 grab
0611024-04	504 grab
0611024-05	505 composite
0611024-06	506 composite
0611024-07	507 composite
0611024-08	508 composite

CASE NARRATIVE Alpha Woods Hole Labs

ETR: 0611024

Project: New Bedford Harbor

All analyses were performed according to Alpha Woods Hole Labs quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report were performed within holding time, and with appropriate quality control measures, except where noted. A summary of all state and federal accreditations is provided within this report. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted. Air and sediment samples are either not certifiable under the NELAC and/or are not currently held as accredited matrices.

Polychlorinated Biphenyls by GC/MS

- 1. Several target congeners analyzed by this method co-elute with non-target congeners and are therefore reported as a co-eluting pair. Refer to the individual report forms.
- 2. The initial analysis of several samples had concentrations that exceeded the calibration range of the instrument. These samples were reanalyzed at dilution and both analyses are reported. Refer to the individual report forms for dilution requirements.

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Woods Hole Labs makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Woods Hole Labs. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Manager Date: 12/6/05

PCB CONGENERS

Client: Project

dient: Apex Environmental, Inc.

Project: New Bedford Harbor

Client ID: 501 grab
Case: N/A

Sediment

Matrix:

A SDG: N/A

Lab Code: MA00030

ETR: 0611024 Lab ID: 0611024-01

Associated Blank: SS111506B13

Concentration Units: µg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
11/03/06	11/03/06	11/15/06	11/30/06	73.9	5.54	2	1	TLW

Parameter	Result
Cl2-BZ#5/#81	9.5
Cl3-BZ#18	25
Cl3-BZ#28/#311	140
Cl4-BZ#44	32
Cl4-BZ#52	70
Cl4-BZ#43/#491	75
Cl4-BZ#66	56
Cl5-BZ#101/#84'	100
C15-BZ#87	27
Cl7-BZ#184	0.24 U
Cl5-BZ#105	27
Cl5-BZ#118	83
Cl7-BZ#183	3.2
Cl6-BZ#167/#128 ¹	16
Cl6-BZ#138/#1631	65
Cl6-BZ#153	62
Cl7-BZ#170/#1901	6.5
Cl7-BZ#180	11
Cl7-BZ#182/#187 ¹	7.4
Cl8-BZ#195	0.76
Cl9-BZ#206	1.1
Cl10-BZ#209	0.34

^{1 =} These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)	
Cl3-BZ#19-C13	77	50-125	
CI8-BZ#202-C13	80	50-125	

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Project: New Bedford Harbor

Client ID: 502 grab

Sediment

Matrix:

N/A SDG: N/A Lab Code: MA00030

ETR: 0611024

Lab ID: 0611024-02

Associated Blank: SS111506B13

Concentration Units: μg/Kg

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
11/03/06	11/03/06	11/15/06	11/30/06	80.8	5.31	2	1	TLW

Parameter	Result
Cl2-BZ#5/#81	6.0
Cl3-BZ#18	16
Cl3-BZ#28/#31 ¹	77
Cl4-BZ#44	18
Cl4-BZ#52	44
Cl4-BZ#43/#491	45
Cl4-BZ#66	32
Cl5-BZ#101/#841	65
Cl5-BZ#87	16
C17-BZ#184	0.23 U
Cl5-BZ#105	17
Cl5-BZ#118	52
C17-BZ#183	2.3
Cl6-BZ#167/#1281	11
Cl6-BZ#138/#1631	42
Cl6-BZ#153	41
Cl7-BZ#170/#190 ¹	4.6
Cl7-BZ#180	7.0
Cl7-BZ#182/#187 ¹	5.2
Cl8-BZ#195	0.68
Cl9-BZ#206	0.76
Cl10-BZ#209	0.23 U

^{1 =} These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	82	50-125
C18-BZ#202-C13	79	50-125

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:

Apex Environmental, Inc.

Lab Code: MA00030

Project: Client ID:

New Bedford Harbor

ETR: 0611024

503 grab N/A

Lab ID: 0611024-03

SDG:

Associated Blank: \$\$111506B13

Matrix:

Sediment

Concentration Units: μg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
11/03/06	11/03/06	11/15/06	11/30/06	52.0	5.66	2	1	TLW

N/A

Parameter	Result
Cl2-BZ#5/#81	38
Cl3-BZ#18	84
C13-BZ#28/#31 ¹	560 E
Cl4-BZ#44	100
Cl4-BZ#52	250
Cl4-BZ#43/#491	310
Cl4-BZ#66	240
CI5-BZ#101/#841	380
Cl5-BZ#87	90
C17-BZ#184	0.34 U
Cl5-BZ#105	100
Cl5-BZ#118	350 E
Cl7-BZ#183	12
Cl6-BZ#167/#128 ¹	62
Cl6-BZ#138/#163 ¹	250
Cl6-BZ#153	260
Cl7-BZ#170/#1901	26
Cl7-BZ#180	41
Cl7-BZ#182/#187 ¹	31
Cl8-BZ#195	2.7
Cl9-BZ#206	4,7
Cl10-BZ#209	1.9

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
C13-BZ#19-C13	82	50-125
C18-BZ#202-C13	81	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

N/A

52.0



Date

11/03/06

Date

Collected

11/03/06

Client: Project:

Case:

Matrix:

11/15/06

Apex Environmental, Inc.

New Bedford Harbor

503 grab

N/A SDG:

11/30/06

Lab Code: MA00030

ETR: 0611024

2

Lab ID: 0611024-03E

5

Associated Blank: SS111506B13

TLW

Sediment Concentration Units: µg/Kg Date Date Sample Final Dilution Received Extracted Analyzed Percent Solid Amount (g) Volume (ml) Factor Analyst

5.66

Parameter	Result
Cl2-BZ#5/#81	31
Cl3-BZ#18	78
Cl3-BZ#28/#31 ¹	490
Cl4-BZ#44	96
CI4-BZ#52	220
Cl4-BZ#43/#49 ¹	270
Cl4-BZ#66	210
Cl5-BZ#101/#841	340
C15-BZ#87	81
Cl7-BZ#184	1.7 U
Cl5-BZ#105	91
Cl5-BZ#118	300
C17-BZ#183	16
Cl6-BZ#167/#1281	56
Cl6-BZ#138/#1631	220
Cl6-BZ#153	230
Cl7-BZ#170/#1901	27
C17-BZ#180	39
Cl7-BZ#182/#1871	32
Cl8-BZ#195	1.7 U
Cl9-BZ#206	1.7 U
Cl10-BZ#209	1.7 U

¹ = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)	
C13-BZ#19-C13	80	50-125	
C18-BZ#202-C13	78	50-125	

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project:

Apex Environmental, Inc. **New Bedford Harbor**

Client ID: 504 grab

Case: SDG: N/A N/A

Matrix: Sediment Lab Code: MA00030

ETR: 0611024 Lab ID: 0611024-04

Associated Blank: SS111506B13

Concentration Units:

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
11/03/06	11/03/06	11/15/06	11/30/06	45.9	5.35	2	1	TLW
	Para	ameter		<u> </u>		Result	· · · · · · · · · · · · · · · · · · ·	
	C12-	·BZ#5/#8¹				56		
Cl3-BZ#18					120			
Cl3-BZ#28/#31 ¹					760 E			
Cl4-BZ#44					150			
C14-BZ#52					340 E			
	C14-	BZ#43/#491				410		
	C14-	B7#66				340 E		

CIT BEITSE	
Cl4-BZ#43/#491	410
Cl4-BZ#66	340 E
C15-BZ#101/#841	520
Cl5-BZ#87	120
C17-BZ#184	0.41 U
Cl5-BZ#105	140
C15-BZ#118	460 E
Cl7-BZ#183	18
Cl6-BZ#167/#1281	79
Cl6-BZ#138/#1631	330
Cl6-BZ#153	340 E
Cl7-BZ#170/#1901	35
C17-BZ#180	56
Cl7-BZ#182/#187 ¹	41
Cl8-BZ#195	5.5
Cl9-BZ#206	6.7
Cl10-BZ#209	3.4

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
C13-BZ#19-C13	82	50-125
Cl8-BZ#202-C13	81	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project:

Apex Environmental, Inc. New Bedford Harbor

Sediment

Client ID:

Matrix:

504 grab

N/A SDG:

N/A

Lab Code: MA00030

ETR: 0611024

Lab ID: 0611024-04E

Associated Blank: SS111506B13 Concentration Units: µg/Kg

								• • •
Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
11/03/06	11/03/06	11/15/06	11/30/06	45.9	5.35	2	5	TLW

Parameter	Result
C12-BZ#5/#81	46
C13-BZ#18	110
Cl3-BZ#28/#31'	660
Cl4-BZ#44	140
Cl4-BZ#52	300
Cl4-BZ#43/#49 ¹	350
Cl4-BZ#66	290
C15-BZ#101/#841	460
Cl5-BZ#87	110
<u>CI7-BZ#184</u>	2.0 U
Cl5-BZ#105	120
Cl5-BZ#118	390
Cl7-BZ#183	17
Cl6-BZ#167/#128 ¹	73
C16-BZ#138/#1631	290
Cl6-BZ#153	300
Cl7-BZ#170/#190 ¹	31
Cl7-BZ#180	50
Cl7-BZ#182/#187 ¹	37
Cl8-BZ#195	4.7
Cl9-BZ#206	6.4
Cl10-BZ#209	3.3

^{1 =} These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-Cl3	79	50-125
CI8-BZ#202-C13	78	50-125

U - The analyte was analyzed for but not detected at the sample specific level reported.



Client: Project:

Matrix:

Apex Environmental, Inc. **New Bedford Harbor**

Client ID: 505 composite

N/A SDG:

Sediment

Lab Code: MA00030

ETR: 0611024 Lab ID: 0611024-05

Associated Blank: \$\$111506B13

Concentration Units: µg/Kg

								10-0
Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
11/03/06	11/03/06	11/15/06	11/30/06	41.1	5.25	2	1	TLW

N/A

Parameter	Result
Cl2-BZ#5/#81	72
Cl3-BZ#18	160
Cl3-BZ#28/#311	1000 E
Cl4-BZ#44	200
Cl4-BZ#52	460 E
Cl4-BZ#43/#49'	560
Cl4-BZ#66	460 E
Cl5-BZ#101/#841	750 E
C15-BZ#87	180
Cl7-BZ#184	0.46 U
Cl5-BZ#105	210
Cl5-BZ#118	680 E
Cl7-BZ#183	24
Cl6-BZ#167/#1281	120
Cl6-BZ#138/#1631	490
Cl6-BZ#153	510 E
Cl7-BZ#170/#190 ¹	50
Cl7-BZ#180	80
Cl7-BZ#182/#187 ¹	59
Cl8-BZ#195	5.5
Cl9-BZ#206	7.7
Cl10-BZ#209	3.9

¹ = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-Cl3	80	50-125
C18-BZ#202-C13	85	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.



Matrix:

ient: Apex Environmental, Inc.

New Bedford Harbor 505 composite

e: N/A SDG: N/A

Sediment

Lab Code: MA00030

ETR: 0611024

Lab ID: 0611024-05E

Associated Blank: SS111506B13
Concentration Units: µg/Kg

	Date	Date	Date	Date]-	Sample	Final	Dilution	
	Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
ļ	11/03/06	11/03/06	11/15/06	12/02/06	41.1	5.25	2	5	TLW

Parameter	Result
Cl2-BZ#5/#81	56
Cl3-BZ#18	120
Cl3-BZ#28/#31 ¹	820
Cl4-BZ#44	150
Cl4-BZ#52	360
Cl4-BZ#43/#491	430
Cl4-BZ#66	370
Cl5-BZ#101/#841	600
CI5-BZ#87	150
Cl7-BZ#184	2.3 U
Cl5-BZ#105	180
Cl5-BZ#118	560
CI7-BZ#183	21
Cl6-BZ#167/#1281	110
Cl6-BZ#138/#1631	420
Cl6-BZ#153	420
CI7-BZ#170/#1901	47
C17-BZ#180	72
Cl7-BZ#182/#187 ¹	52
Cl8-BZ#195	5.6
C19-BZ#206	7.7
Cl10-BZ#209	3.5

^{1 =} These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	76	50-125
C18-BZ#202-C13	73	50-125

N/A - Not Applicable

 \boldsymbol{U} - The analyte was analyzed for but not detected at the sample specific level reported.

Client:
Project:
Client ID:

Case:

Matrix:

Apex Environmental, Inc. New Bedford Harbor

506 composite

Sediment

N/A SDG: N/A

Lab Code: MA00030

ETR: 0611024

Lab ID: 0611024-06

Associated Blank: SS111506B13

Concentration Units: µg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
11/03/06	11/03/06	11/15/06	11/30/06	44.1	5.37	2	1	TLW

Parameter	Result
Cl2-BZ#5/#81	69
Cl3-BZ#18	150
Cl3-BZ#28/#31 ¹	1100 E
Cl4-BZ#44	180
<u>Cl4-BZ#52</u>	480 E
<u>Cl4-BZ#43/#49¹</u>	590
Cl4-BZ#66	450 E
Cl5-BZ#101/#84 ¹	710 E
C15-BZ#87	150
Cl7-BZ#184	0.42 U
Cl5-BZ#105	180
Cl5-BZ#118	650 E
C17-BZ#183	22
Cl6-BZ#167/#1281	110
C16-BZ#138/#1631	450
Cl6-BZ#153	500 E
C17-BZ#170/#1901	46
C17-BZ#180	73
Cl7-BZ#182/#187 ¹	57
Cl8-BZ#195	5.2
Cl9-BZ#206	7.6
Cl10-BZ#209	3.8

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	%_Recovery	Range (%)
Cl3-BZ#19-C13	82	50-125
C18-BZ#202-C13	83	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.



Client: Project:

Matrix:

Apex Environmental, Inc.

New Bedford Harbor

506 composite N/A SDG:

Sediment

N/A

Lab Code: MA00030

ETR: 0611024

Lab ID: 0611024-06E

Associated Blank: SS111506B13

Concentration Units: µg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	.,,,,
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
11/03/06	11/03/06	11/15/06	12/02/06	44.1	5.37	2	5	TLW

Parameter	Result
Cl2-BZ#5/#8 ¹	54
Cl3-BZ#18	110
Cl3-BZ#28/#311	860
Cl4-BZ#44	150
Cl4-BZ#52	370
Cl4-BZ#43/#491	460
C14-BZ#66	360
CI5-BZ#101/#841	580
CI5-BZ#87	130
CI7-BZ#184	2.1 U
Cl5-BZ#105	160
Cl5-BZ#118	550
Cl7-BZ#183	20
Cl6-BZ#167/#128 ¹	99
Cl6-BZ#138/#1631	390
Cl6-BZ#153	420
Cl7-BZ#170/#1901	42
Cl7-BZ#180	67
Cl7-BZ#182/#187 ¹	52
C18-BZ#195	6.6
C19-BZ#206	11
Cl10-BZ#209	4.4

^{1 =} These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
C13-BZ#19-C13	77	50-125
Cl8-BZ#202-C13	76	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project:

Apex Environmental, Inc. New Bedford Harbor

Client ID: 507 composite

N/A SDG: N/A

ETR: 0611024 Lab ID: 0611024-07

Associated Blank: SS111506B13

Lab Code: MA00030

Matrix: Sediment Concentration Units: µg/Kg

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
11/03/06	11/03/06	11/15/06	11/30/06	37.4	5.82	2	1	TLW

Parameter	Result
Cl2-BZ#5/#8 ¹	
Cl3-BZ#18	140
Cl3-BZ#28/#311	1300 E
Cl4-BZ#44	180
Cl4-BZ#52	500 E
Cl4-BZ#43/#491	730
Cl4-BZ#66	570 E
Cl5-BZ#101/#841	880 E
C15-BZ#87	160
C17-BZ#184	0.46 U
C15-BZ#105	240
Cl5-BZ#118	870 E
Cl7-BZ#183	29
Cl6-BZ#167/#1281	150
Cl6-BZ#138/#1631	590
Cl6-BZ#153	680 E
Cl7-BZ#170/#190 ¹	60
Cl7-BZ#180	96
C17-BZ#182/#187 ¹	77
Cl8-BZ#195	5.7
Cl9-BZ#206	12
Cl10-BZ#209	23

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	76	50-125
Cl8-BZ#202-C13	84	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Project:

Client:

Apex Environmental, Inc.

Client ID:

New Bedford Harbor

Matrix:

507 composite N/A

Sediment

SDG:

N/A

Lab Code: MA00030

ETR: 0611024

Lab ID: 0611024-07E

Associated Blank: \$\$111506B13

Concentration Units: µg/Kg

	Date	Date	Date	Date		Sample	Final	Dilution	
ĺ	Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
Ì	11/03/06	11/03/06	11/15/06	12/02/06	37.4	5.82	2	5	TLW

Parameter	Result
C12-BZ#5/#81	54
Cl3-BZ#18	100
Cl3-BZ#28/#31 ¹	1000
Cl4-BZ#44	150
Cl4-BZ#52	410
Cl4-BZ#43/#491	590
Cl4-BZ#66	470
C15-BZ#101/#84 ¹	730
C15-BZ#87	140
C17-BZ#184	2.3 U
Cl5-BZ#105	200
Cl5-BZ#118	740
Cl7-BZ#183	<u> 26</u>
Cl6-BZ#167/#1281	130
Cl6-BZ#138/#1631	520
Cl6-BZ#153	590
Cl7-BZ#170/#190 ¹	54
Cl7-BZ#180	86
Cl7-BZ#182/#187 ¹	70
Cl8-BZ#195	4.7
C19-BZ#206	12
Cl10-BZ#209	22

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	%Recovery	Range (%)
Cl3-BZ#19-C13	72	50-125
C18-BZ#202-C13	81	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client:
Project:
Client ID:

Matrix:

Apex Environmental, Inc. New Bedford Harbor

508 composite

Sediment

N/A SDG: N/A

Lab Code: MA00030

ETR: 0611024

Lab ID: 0611024-08

Associated Blank: SS111506B13
Concentration Units: µg/Kg

								100	_
Date	Date	Date	Date		Sample	Final	Dilution		
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst	
11/03/06	11/03/06	11/15/06	11/30/06	47.2	5.32	2	1	TLW	Ì

Parameter	Result
Cl2-BZ#5/#81	70
Cl3-BZ#18	170
C13-BZ#28/#31 ¹	1000 E
Cl4-BZ#44	210
Cl4-BZ#52	490 E
Cl4-BZ#43/#49'	540
Cl4-BZ#66	440 E
C15-BZ#101/#841	700 E
C15-BZ#87	160
CI7-BZ#184	0.40 U
Cl5-BZ#105	200
C15-BZ#118	620 E
CI7-BZ#183	21
Cl6-BZ#167/#128 ¹	110
Cl6-BZ#138/#1631	450
Cl6-BZ#153	450 E
Cl7-BZ#170/#1901	46
C17-BZ#180	
C17-BZ#182/#187 ¹	50
Cl8-BZ#195	3.9
C19-BZ#206	6.7
Cl10-BZ#209	3.8

¹ = These two Congeners are reported as a co-eluting pair.

		Acceptance
Surrogate	% Recovery	Range (%)
Cl3-BZ#19-C13	79	50-125
Cl8-BZ#202-C13	85	50-125

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Client: Project: Client ID:

Date

Collected

11/03/06

Case:

Matrix:

Apex Environmental, Inc.

New Bedford Harbor

Sediment

508 composite N/A SDG:

N/A

Lab Code: MA00030

ETR: 0611024

Lab ID: 0611024-08E

Associated Blank: SS111506B13

Concentration Units: μg/Kg Final Dilution Date Date Date Sample Volume (ml) Factor Analyst Received Extracted Analyzed Percent Solid Amount (g) 12/02/06 47.2 2 5 **TLW** 11/03/06 11/15/06 5.32

Parameter	Result
C12-BZ#5/#81	53
Cl3-BZ#18	120
Cl3-BZ#28/#311	760
Cl4-BZ#44	160
Cl4-BZ#52	370
Cl4-BZ#43/#49 ¹	410
C14-BZ#66	340
Cl5-BZ#101/#841	550
C15-BZ#87	130
C17-BZ#184	2.0 U
C15-BZ#105	160
Cl5-BZ#118	500
C17-BZ#183	20
Cl6-BZ#167/#1281	98
Cl6-BZ#138/#1631	370
<u>Cl6-BZ#153</u>	370
C17-BZ#170/#1901	41
C17-BZ#180	62
<u>C17-BZ#182/#187¹</u>	44
Cl8-BZ#195	4.1
C19-BZ#206	8.8
Cl10-BZ#209	3.2

¹ = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	66	50-125
C18-BZ#202-C13	78	50-125

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Blank PCB by GC/MS

Client:
Project:
Client ID:

Matrix:

Apex Environmental, Inc.

New Bedford Harbor

Blank

Sediment

N/A SDG: N/A

Lab Code: MA00030

ETR: 0611024

Lab ID: SS111506B13 Associated Blank: N/A

Concentration Units: µg/Kg

Date	Date	Date	Date		Sample	Final	Dilution	
Collected	Received	Extracted	Analyzed	Percent Solid	Amount (g)	Volume (ml)	Factor	Analyst
N/A	N/A	11/15/06	11/30/06	100	5.00	2	1	TLW

Parameter	Result
Cl2-BZ#5/#81	0.40 U
Cl3-BZ#18	0.20 U
Cl3-BZ#28/#31 ¹	0.40 U
Cl4-BZ#44	0.20 U
Cl4-BZ#52	0.20 U
Cl4-BZ#43/#49'	0.40 U
Cl4-BZ#66	0.20 U
Cl5-BZ#101/#841	0.40 U
C15-BZ#87	0.20 U
Cl7-BZ#184	0.20 U
Cl5-BZ#105	0.20 U
Cl5-BZ#118	0.20 U
Cl7-BZ#183	0.20 U
Cl6-BZ#167/#1281	0.40 U
Cl6-BZ#138/#1631	0.40 U
Cl6-BZ#153	0.20 U
Cl7-BZ#170/#190 ¹	0.40 U
Cl7-BZ#180	0.20 U
Cl7-BZ#182/#187 ¹	0.40 U
Cl8-BZ#195	0.20 U
Cl9-BZ#206	0.20 U
C110-BZ#209	0.20 U

¹ = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
CI3-BZ#19-C13	88	50-125
CI8-BZ#202-C13	80	50-125

N/A - Not Applicable

 \boldsymbol{U} - The analyte was analyzed for but not detected at the sample specific level reported.

Laboratory Control Summary PCB by GC/MS



Apex Environmental, Inc.
New Bedford Harbor
Laboratory Control Sample
N/A SDG: N/A

Lab Code: MA00030 ETR: 0611024 Lab ID: See Below

Matrix:

N/A SDG: No Sediment

Associated Blank: SS111506B13

Concentration Units: µg/Kg

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	11/15/06	100	TLW

Lab ID:	SS111506B	13	SS11	1506LCS11	SS111	506LCSD11			
	Blank		LCS		LCSD			RPD %	Recovery
Parameter	Conc.	e 12 e e e e e e e e e e e e e e e e e e	Conc.	% Recovery	Conc.	% Recovery	% RPD	Limit	Limits
Cl2-BZ#5/#81	0.40	U	6.0	76	6.9	86	13	50	40-140
Cl3-BZ#18	0.20	U	5.9	74	6.8	85	13	50	40-140
Cl3-BZ#28/#311	0.40	U	11	69	13	80	14	50	40-140
Cl4-BZ#44	0.20	U	5.4	68	6.1	77	13	50	40-140
Cl4-BZ#52	0.20	U	5.5	69	6.3	78	13	50	40-140
Cl4-BZ#43/#491	0.40	U	6.2	77	7.1	89	14	50	40-140
Cl4-BZ#66	0.20	U	5.6	70	6.0	75	6	50	40-140
C15-BZ#101/#841	0.40	U	6.0	75	6.7	84	12	50	40-140
CI5-BZ#87	0.20	U	4.9	61	5.5	69	12	50	40-140
CI5-BZ#105	0.20	U	5.2	65	5.7	71	9	50	40-140
Cl5-BZ#118	0.20	U	5.0	63	5.6	70	11	50	40-140
Cl7-BZ#183	0.20	U	5.9	73	6.3	79	7	50	40-140
Cl6-BZ#167/#1281	0.40	U	12	73	13	80	9	50	40-140
Cl6-BZ#138/#1631	0.40	U	4.9	61	5.4	67	10	50	40-140
Cl6-BZ#153	0.20	U	5.7	71	6.2	77	9	50	40-140
Cl7-BZ#170/#1901	0.40	U	5.2	65	5.6	70	7	50	40-140
C17-BZ#180	0.20	U	5.9	73	6.6	83	12	50	40-140
Cl7-BZ#182/#1871	0.40	U	6.3	79	6.7	84	7	50	40-140
Cl8-BZ#195	0.20	U	6.1	76	6.6	82	7	50	40-140
Cl9-BZ#206	0.20	U	6.2	78	6.9	86	11	50	40-140
C110-BZ#209	0.20	U	6.1	76	6.8	84	10	50	40-140

¹ = These two Congeners are reported as a co-eluting pair.

			Acceptance
Surrogate	% Rec	covery	Range (%)
Cl3-BZ#19-C13	88	94	50-125
C18-BZ#202-C13	77	84	50-125

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

 $[\]boldsymbol{U}$ - The analyte was analyzed for but not detected at the sample specific level reported.

CHAIN OF CUSTODY RECORDS

CHAIN OF	CUSTODY PA	GEOF	Date Rec'd in La) b:		ALPHA	Job#: 0611024
WESTBORO, MA RAYNHAM,MA	Project Information		Report Informa	ation - Data Delivera	ables	Billing Ir	nformation
TEL: 508-898-9220 TEL: 508-822-9300 FAX: 508-898-9193 FAX: 508-822-3288	Project Name: New Bec	ford Herbor	∠ E-FAX	□ S MAIL		☐ Same a	s Client info PO#:
Client Information	Project Location: Fair	٠,	D ADEx	Add'l Deliverable			
Client: ADEX Companies LLC	Project #: 6591 (200		uirements/Report L			
Address: 115 Brown St.	Project Manager: Kris U	NAFICATIN	State /Fed Progra	m Crite	eria ———		
Soit 200	ALPHA Quote #:		MAMCPPRESU	MPTIVECERTAINT	YCTR	EASONAE	BLECONFIDENCEPROTOCOLS
Phone: (017.728.0070	Turn-Around Time		☐ Yes ☐ No	Are MCP Analytical	Methods	Required?	
Fax: 617.1728.0080			☐ Yes ☐ No	Are CT RCP (Reaso		•	otocols) Required?
Email: KUMUNAERSSON CAPORCOS.COM	ԾStandard □ RUSH տ	nly confirmed if pre-approved!)			/ /	///	T
☐ These samples have been previously analyzed by Alpha	Date Due:	Time:	AWAL YSIS	/ / / /		/ / /	SAMPLE HANDLING Filtration
Other Project Specific Requirements/Comm	ents/Detection Limits:		3/ \$ I		//	///	Done □ Not needed #
Minimum détec	tion limit o	.001ppm.	AWALY B Summation		/ //	///	☐ Lab to do Preservation ☐ Lab to do
ALPHA Lab ID (Lab Use Only) Saltigic ID,	Collection Date Time	Sample Sampler's	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			///	(Please specify below) Sample Specific Comments
50	11/3/06 13:30	SE OFFKY					cample appeale comments
2 3		· · · · · · · · · · · · · · · · · · ·				 	
	11/3/166 14:00				 		
-3 303 gra	63/04/4:10	SE 9/4/2	N V				
14 504 .9/N	0 1/3 VOL 14:20	ST TUNY	y /				
505 composi	te 11/5/06/14:30	SE OFFICE	0				
506 compos	ite 11/3/16/5:15	S# OPRIKY	N ~				
17 567 compo		SE VEW	W /				
-8 508 compet		SE dela	 				
	- WALLET	1					
Pa (1888) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
PLEASE ANSWER QUESTIONS ABOVE!	-	Container Type Preservative					Please print clearly, legibly and completely. Samples can not be
S YOUR PROJECT MA MCP or CT RCP?	Relinquished By:	Date/Time	- Possi	ived By:	Date	e/Time	logged in and furnaround time clock will not start until any ambiguities are
MA MCP or CT RCP?	On a	11/3/06 16:18		iyed By:		16:15	resolved. All samples submitted are subject to Alpha's Payment Terms.
FORM NO: 01-01 (rev. 10-OCT-05)	Lilbert	11-3-06	Mare	fr		165D	See reverse side.
				/	<u> </u>		

Sample Re	ceipt Checklist	I of
Client: APEENU	Receipt Date: ///3/06	
Project: New Bedford Harbon	Log-in Date:	
ETR#: 0611024	Inspection by: Login by: ~	
ALL SECTIONS BELOW MUST BE COM	PLETED Comments / Notes	
Were samples shipped? Yes, FedEx / UPS / Other: No, WHG Courier pick-up / H	Sample storage refrigerator #:	<u>C3</u>
Is bill of lading retained? Yes, Tracking #:	Sample storage freezer #:	
Number of coolers received for this project delivery:		
Indicate cooler temperature upon opening (if multiple coolers, re-	ord <u>all</u> temps): Cooler 2: Cooler	3:
<u>Note:</u> If <u>all</u> coolers are 2-6°C, use one checklist, if NOT, use sepa <u>all</u> samples received <i>above</i> 6°C.	rate checklists and note Cooler 4: Cooler	5:
Cooler 1: Temperature(s) taken from: 4° IR Gun, 3.5° Temp.		
Were samples received on ice? (Yes) / No	More:	
Chain-of-Custody present? (es / No Complete? (fes / No		:
Custody seals present on Cooler? Yes / No		
on Bottles? Yes / No		
Intact? Yes / No / NA Note: Affix custody seals to back of this page.	·	
Were sample containers intact? Yes / No	If No, list samples: →	
Did VOA/VPH waters contain headspace (>5mm)? Yes / No /V	If Yes, list samples: →	
Were 5035 VOA soils, or VPH soils, covered with MeOH? Y	s / No / NA If No, list samples: →	
Was a sufficient amount of sample received for each test indicate (Ses) / No	If No, list samples: →	
If chemical preservation is appropriate - Were samples field preserved? Yes / No	Chemical preservation OK for samples?	ALL
□C=HCl □ M=MeOH □ S=H ₂ SO4		(A)
\square H=NaOH \square N=HNO ₃ \square Other: \square \square U= U	inknown If No, list samples below:	
Preservation (pH) verified at lab for EVERY bottle? (Not: VOA / YES: <2 or >12 (CN) or If No, why?:		
Were samples received within hold time? Yes/ No	If No, list samples: >	,
Discrepancy between samples rec'd & COC? Yes (No)	If Yes, list samples: →	
Was the Project Manager notified of any other problems? Yes	/ No / NA	

Project Manager Acknowledgement: Mancy Gulos Date: 11/3/06

Please use back for any additional notes!

Certificate Program Summary



Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

Connecticut Department of Public Health Certificate No.: PH-0141 - Wastewater (General Chemistry: 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2, 365.2, 405.1, 413.1, COD HACH 8000; Metals: 200.7, 245.1; Organics: 608, 624, 625). Solid Waste/Soil (General Chemistry: 1010, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

Florida Department of Health Certificate No.: E87814 - Secondary NELAP Accreditation for Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, SM2320B, 335.2, 365.2, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). Solid and Hazardous Waste (General Chemistry: 9010/9014, 9045, 9050, 9056, 9060, 9065; Metals: 6010, 6020, 7041, 7060, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Louisiana Department of Environmental Quality Certificate No.: 03090 - Primary NELAP Accrediting Authority for Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). Solid and Hazardous Waste (General Chemistry: 1010, 1311, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7060, 7191, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Maine Department of Human Services Certificate No.: MA030 - Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

Massachusetts Department of Environmental Protection Certificate No.: M-MA030 - Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

New Hampshire Department of Environmental Services Certificate No.: 220604 - Secondary NELAP Accreditation for Wastewater (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, COD HACH 8000, SM2540G; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625).

New Jersey Department of Environmental Protection Certificate No.: MA015 - Solid and Hazardous Waste (General Chemistry: 1010, 1311, 3060, 7196, 9010/9014, 9045, 9056, 9060; Metals: 3010, 3015, 3020, 3050, 3051, 6010, 6020, 7041, 7060, 7131, 7191, 7211, 7421, 7470, 7471, 7520, 7740, 7761, 7841; Organics: 3510, 3545, 5030, 5035, 3620, 3630, 3640, 3660, 8081, 8082, 8100, 8260, 8270).

New York Department of Health Certificate No.: 11627 - Secondary NELAP Accreditation for Wastewater (Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). Solid and Hazardous Waste (Metals: 6010, 7041, 7060, 7470, 7471, 7740; Organics: 8081, 8082, 8260, 8270).

Rhode Island Department of Health Certificate No.: 00064 - Chemistry: Organic and Inorganic in Surface Water, Wastewater/Sewage and Soil (Method numbers not specified with certificate.)

U.S. Army Corps of Engineers - General Chemistry: 9010/9014, 9071/418.1, 9060; Organics: 8081, 8082, 8260, 8270, 8270-SIM; Metals: 6010, 6020, 7000.

Department of the Navy - General Chemistry: 9010/9014, 9060; Organics: 8081, 8082, 8015-mod, 8260, 8270, 8270-SIM; Metals: 6010, 6020.



ANALYTICAL REPORT

Lab Number: L1001187

Client: Apex Companies

115 Broad Street

Suite 200

Boston, MA 02110

ATTN: Chet Myers

Project Name: NBH PHASE III

Project Number: 6690.001 Report Date: 01/29/10

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806 508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name:NBH PHASE IIILab Number:L1001187Project Number:6690.001Report Date:01/29/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1001187-01	POST_012010_G1	NEW BEDFORD, MA	01/20/10 10:16
L1001187-02	POST_012010_TP2	NEW BEDFORD, MA	01/20/10 12:45
L1001187-03	POST_012010_UW1	NEW BEDFORD, MA	01/20/10 12:17
L1001187-04	POST_012010_PACK1	NEW BEDFORD, MA	01/20/10 14:20
L1001187-05	POST_012010_BHB1	NEW BEDFORD, MA	01/20/10 14:46
L1001187-06	POST_012010_ONWF1	NEW BEDFORD, MA	01/20/10 13:48
L1001187-07	POST_012010_SA1	NEW BEDFORD, MA	01/20/10 11:20
L1001187-08	POST_012010_SA2	NEW BEDFORD, MA	01/20/10 11:30
L1001187-09	POST_012010_SA3	NEW BEDFORD, MA	01/20/10 11:45
L1001187-10	POST_012010_TP1	NEW BEDFORD, MA	01/20/10 13:00

Project Name:NBH PHASE IIILab Number:L1001187Project Number:6690.001Report Date:01/29/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

PCB Congeners

L1001187-05 was re-analyzed on dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.



Project Name: NBH PHASE III Lab Number: L1001187

Project Number: 6690.001 **Report Date:** 01/29/10

Case Narrative (continued)

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Kathle M. Main

Authorized Signature:

Title: Technical Director/Representative

Date: 01/29/10



ORGANICS



PCBS



Project Name: NBH PHASE III Lab Number: L1001187

Project Number: 6690.001 **Report Date:** 01/29/10

SAMPLE RESULTS

Lab ID: L1001187-01
Client ID: POST_012010_G1
Sample Location: NEW BEDFORD, MA

Matrix: Soil

Analytical Method: 1,8270C-SIM Analytical Date: 01/28/10 16:51

Analyst: WN Percent Solids: 76%

Date Collected: 01/20/10 10:16
Date Received: 01/22/10
Field Prep: Not Specified
Extraction Method: EPA 3570
Extraction Date: 01/25/10 14:11
Cleanup Method1: ----

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield I	Lab				
Cl2-BZ#8	20.4		ug/kg	0.954	1
Cl3-BZ#18	64.8		ug/kg	0.954	1
Cl3-BZ#28	204		ug/kg	0.954	1
CI4-BZ#44	58.5		ug/kg	0.954	1
CI4-BZ#49	70.3		ug/kg	0.954	1
Cl4-BZ#52	129		ug/kg	0.954	1
CI4-BZ#66	25.0		ug/kg	0.954	1
CI5-BZ#87	ND		ug/kg	0.954	1
CI5-BZ#101	75.7		ug/kg	0.954	1
CI5-BZ#105	25.3		ug/kg	0.954	1
CI5-BZ#118	76.9		ug/kg	0.954	1
Cl6-BZ#128	10.4		ug/kg	0.954	1
Cl6-BZ#138	66.7		ug/kg	0.954	1
Cl6-BZ#153	30.4		ug/kg	0.954	1
CI7-BZ#170	7.11		ug/kg	0.954	1
CI7-BZ#180	7.56		ug/kg	0.954	1
CI7-BZ#183	ND		ug/kg	0.954	1
CI7-BZ#184	ND		ug/kg	0.954	1
CI7-BZ#187	4.11		ug/kg	0.954	1
Cl8-BZ#195	ND		ug/kg	0.954	1
Cl9-BZ#206	ND		ug/kg	0.954	1
CI10-BZ#209	ND		ug/kg	0.954	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
DBOB	81		50-125	
BZ 198	81		50-125	



01/20/10 12:45

01/25/10 14:11

Date Collected:

Extraction Date:

Cleanup Method1:

Project Name: Lab Number: NBH PHASE III L1001187

Project Number: Report Date: 6690.001 01/29/10

SAMPLE RESULTS

Lab ID: L1001187-02

Client ID: POST_012010_TP2 Date Received: 01/22/10 Sample Location: NEW BEDFORD, MA Field Prep: Not Specified Extraction Method: EPA 3570

Matrix: Soil

Analytical Method: 1,8270C-SIM Analytical Date: 01/28/10 17:30

Analyst: WN 66% Percent Solids:

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield	l Lab				
CI2-BZ#8	ND		ug/kg	1.08	1
Cl3-BZ#18	ND		ug/kg	1.08	1
Cl3-BZ#28	ND		ug/kg	1.08	1
CI4-BZ#44	ND		ug/kg	1.08	1
CI4-BZ#49	ND		ug/kg	1.08	1
CI4-BZ#52	ND		ug/kg	1.08	1
CI4-BZ#66	ND		ug/kg	1.08	1
CI5-BZ#87	ND		ug/kg	1.08	1
CI5-BZ#101	ND		ug/kg	1.08	1
CI5-BZ#105	ND		ug/kg	1.08	1
CI5-BZ#118	ND		ug/kg	1.08	1
CI6-BZ#128	ND		ug/kg	1.08	1
CI6-BZ#138	ND		ug/kg	1.08	1
CI6-BZ#153	ND		ug/kg	1.08	1
CI7-BZ#170	ND		ug/kg	1.08	1
CI7-BZ#180	ND		ug/kg	1.08	1
CI7-BZ#183	ND		ug/kg	1.08	1
CI7-BZ#184	ND		ug/kg	1.08	1
CI7-BZ#187	ND		ug/kg	1.08	1
CI8-BZ#195	ND		ug/kg	1.08	1
CI9-BZ#206	ND		ug/kg	1.08	1
Cl10-BZ#209	ND		ug/kg	1.08	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
DBOB	88		50-125	
BZ 198	89		50-125	



Project Name: NBH PHASE III Lab Number: L1001187

Project Number: 6690.001 **Report Date:** 01/29/10

SAMPLE RESULTS

Lab ID: L1001187-03 Date Collected: 01/20/10 12:17

Client ID: POST_012010_UW1 Date Received: 01/22/10
Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Matrix: Soil Extraction Method: EPA 3570

Matrix: Soil Extraction Method: EPA 3570

Analytical Method: 1,8270C-SIM Extraction Date: 01/25/10 14:11
Analytical Date: 01/28/10 18:08 Cleanup Method1: ----

Analyst: WN Percent Solids: 35%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab					
Cl2-BZ#8	30.1		ug/kg	2.10	1
Cl3-BZ#18	192		ug/kg	2.10	<u>'</u>
CI3-BZ#18	397			2.10	1
			ug/kg		
Cl4-BZ#44	112		ug/kg	2.10	1
CI4-BZ#49	92.1		ug/kg	2.10	1
CI4-BZ#52	218		ug/kg	2.10	1
CI4-BZ#66	42.4		ug/kg	2.10	1
CI5-BZ#87	ND		ug/kg	2.10	1
CI5-BZ#101	158		ug/kg	2.10	1
CI5-BZ#105	70.3		ug/kg	2.10	1
CI5-BZ#118	170		ug/kg	2.10	1
CI6-BZ#128	41.0		ug/kg	2.10	1
CI6-BZ#138	209		ug/kg	2.10	1
CI6-BZ#153	102		ug/kg	2.10	1
CI7-BZ#170	45.5		ug/kg	2.10	1
CI7-BZ#180	67.9		ug/kg	2.10	1
CI7-BZ#183	9.25		ug/kg	2.10	1
CI7-BZ#184	ND		ug/kg	2.10	1
CI7-BZ#187	54.1		ug/kg	2.10	1
CI8-BZ#195	ND		ug/kg	2.10	1
CI9-BZ#206	ND		ug/kg	2.10	1
Cl10-BZ#209	ND		ug/kg	2.10	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
DBOB	88		50-125	
BZ 198	119		50-125	



Project Name: NBH PHASE III Lab Number: L1001187

Project Number: 6690.001 **Report Date:** 01/29/10

SAMPLE RESULTS

Lab ID: L1001187-04

Client ID: POST_012010_PACK1 Sample Location: NEW BEDFORD, MA

Matrix: Soil

Analytical Method: 1,8270C-SIM Analytical Date: 01/28/10 18:47

Analyst: WN Percent Solids: 81%

Date Collected: 01/20/10 14:20
Date Received: 01/22/10
Field Prep: Not Specified
Extraction Method: EPA 3570
Extraction Date: 01/25/10 14:11

Cleanup Method1: ---

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
PCB Congeners (NOAA List) - Mansf	field Lab				
Cl2-BZ#8	ND		ug/kg	0.923	1
Cl3-BZ#18	1.74		ug/kg	0.923	1
Cl3-BZ#28	8.85		ug/kg	0.923	1
CI4-BZ#44	1.98		ug/kg	0.923	1
CI4-BZ#49	4.04		ug/kg	0.923	1
CI4-BZ#52	5.71		ug/kg	0.923	1
Cl4-BZ#66	4.04		ug/kg	0.923	1
CI5-BZ#87	ND		ug/kg	0.923	1
CI5-BZ#101	4.46		ug/kg	0.923	1
CI5-BZ#105	ND		ug/kg	0.923	1
CI5-BZ#118	2.96		ug/kg	0.923	1
Cl6-BZ#128	ND		ug/kg	0.923	1
Cl6-BZ#138	2.58		ug/kg	0.923	1
Cl6-BZ#153	2.48		ug/kg	0.923	1
CI7-BZ#170	ND		ug/kg	0.923	1
CI7-BZ#180	ND		ug/kg	0.923	1
CI7-BZ#183	ND		ug/kg	0.923	1
CI7-BZ#184	ND		ug/kg	0.923	1
CI7-BZ#187	ND		ug/kg	0.923	1
CI8-BZ#195	ND		ug/kg	0.923	1
Cl9-BZ#206	ND		ug/kg	0.923	1
CI10-BZ#209	ND		ug/kg	0.923	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
DBOB	88		50-125	
BZ 198	88		50-125	



01/20/10 14:46

01/25/10 14:11

Date Collected:

Extraction Date:

Cleanup Method1:

Project Name: Lab Number: NBH PHASE III L1001187

Project Number: Report Date: 6690.001 01/29/10

SAMPLE RESULTS

Lab ID: L1001187-05

Client ID: POST_012010_BHB1 Date Received: 01/22/10 Sample Location: NEW BEDFORD, MA Field Prep: Not Specified Extraction Method: EPA 3570

Matrix: Soil

Analytical Method: 1,8270C-SIM Analytical Date: 01/28/10 21:21

Analyst: WN 72% Percent Solids:

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab					
Cl2-BZ#8	322	E	ug/kg	0.988	1
Cl3-BZ#18	991	E	ug/kg	0.988	1
Cl3-BZ#28	2820	E	ug/kg	0.988	1
Cl4-BZ#44	968	E	ug/kg	0.988	1
Cl4-BZ#49	847	E	ug/kg	0.988	1
Cl4-BZ#52	1770	E	ug/kg	0.988	1
Cl4-BZ#66	260	Е	ug/kg	0.988	1
CI5-BZ#87	ND		ug/kg	0.988	1
Cl5-BZ#101	789	Е	ug/kg	0.988	1
Cl5-BZ#105	140		ug/kg	0.988	1
Cl5-BZ#118	524	Е	ug/kg	0.988	1
CI6-BZ#128	39.4		ug/kg	0.988	1
CI6-BZ#138	314	Е	ug/kg	0.988	1
CI6-BZ#153	285	Е	ug/kg	0.988	1
CI7-BZ#170	31.8		ug/kg	0.988	1
CI7-BZ#180	30.3		ug/kg	0.988	1
CI7-BZ#183	6.06		ug/kg	0.988	1
CI7-BZ#184	ND		ug/kg	0.988	1
CI7-BZ#187	28.7		ug/kg	0.988	1
Cl8-BZ#195	ND		ug/kg	0.988	1
Cl9-BZ#206	4.35		ug/kg	0.988	1
Cl10-BZ#209	1.74		ug/kg	0.988	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
DBOB	76		50-125	
BZ 198	105		50-125	



Project Name: NBH PHASE III Lab Number: L1001187

Project Number: 6690.001 **Report Date:** 01/29/10

SAMPLE RESULTS

Lab ID: L1001187-05 D

Client ID: POST_012010_BHB1

Sample Location: NEW BEDFORD, MA

Matrix: Soil

Analytical Method: 1,8270C-SIM Analytical Date: 01/28/10 19:25

Analyst: WN Percent Solids: 72%

Date Collected: 01/20/10 14:46
Date Received: 01/22/10
Field Prep: Not Specified
Extraction Method: EPA 3570
Extraction Date: 01/25/10 14:11
Cleanup Method1: ----

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield L	_ab				
CI2-BZ#8	568		ug/kg	19.8	20
CI3-BZ#18	1780		ug/kg	19.8	20
Cl3-BZ#28	4900		ug/kg	19.8	20
Cl4-BZ#44	1590		ug/kg	19.8	20
Cl4-BZ#49	1620		ug/kg	19.8	20
CI4-BZ#52	2530		ug/kg	19.8	20
Cl4-BZ#66	466		ug/kg	19.8	20
Cl5-BZ#101	756		ug/kg	19.8	20
CI5-BZ#118	631		ug/kg	19.8	20
Cl6-BZ#138	413		ug/kg	19.8	20
Cl6-BZ#153	356		ug/kg	19.8	20

01/20/10 13:48

Date Collected:

Project Name: Lab Number: NBH PHASE III L1001187

Project Number: Report Date: 6690.001 01/29/10

SAMPLE RESULTS

Lab ID: L1001187-06

Client ID: POST_012010_ONWF1 Date Received: 01/22/10 Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Extraction Method: EPA 3570 Matrix: Soil

Analytical Method: 1,8270C-SIM Extraction Date: 01/25/10 14:11 Analytical Date: 01/28/10 20:43 Cleanup Method1:

Analyst: WN 74% Percent Solids:

PCB Congeners (NOAA List) - Mansfield Lab CI2-BZ#8 CI3-BZ#18	8.68 47.0	ug/kg	0.965	
		ug/kg	0.965	
		ug/kg		1
	47.0	ug/kg	0.965	<u>.</u>
Cl3-BZ#28	143	ug/kg	0.965	<u>·</u> 1
CI4-BZ#44	49.3	ug/kg	0.965	1
Cl4-BZ#49	50.7	ug/kg	0.965	1
Cl4-BZ#52	92.8	ug/kg	0.965	1
Cl4-BZ#66	17.6	ug/kg	0.965	1
CI5-BZ#87	ND	ug/kg	0.965	1
CI5-BZ#101	72.8	ug/kg	0.965	1
CI5-BZ#105	21.2	ug/kg	0.965	1
CI5-BZ#118	77.2	ug/kg	0.965	1
CI6-BZ#128	19.7	ug/kg	0.965	1
CI6-BZ#138	80.4	ug/kg	0.965	1
CI6-BZ#153	37.0	ug/kg	0.965	1
CI7-BZ#170	4.90	ug/kg	0.965	1
CI7-BZ#180	11.3	ug/kg	0.965	1
CI7-BZ#183	ND	ug/kg	0.965	1
CI7-BZ#184	ND	ug/kg	0.965	1
CI7-BZ#187	6.66	ug/kg	0.965	1
CI8-BZ#195	ND	ug/kg	0.965	1
CI9-BZ#206	ND	ug/kg	0.965	1
CI10-BZ#209	ND	ug/kg	0.965	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
DBOB	92		50-125	
BZ 198	103		50-125	



Project Name: NBH PHASE III Lab Number: L1001187

Project Number: 6690.001 **Report Date:** 01/29/10

SAMPLE RESULTS

Lab ID: L1001187-07 Date Collected: 01/20/10 11:20

Client ID: POST_012010_SA1 Date Received: 01/22/10
Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Matrix: Soil Extraction Method: ERA 3570

Matrix: Soil Extraction Method: EPA 3570

Analytical Method: 1,8270C-SIM Extraction Date: 01/25/10 14:11
Analytical Date: 01/28/10 22:00 Cleanup Method1: ----

Analyst: WN
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield	Lab				
CIO DZ#0	ND		//	0.005	4
CI2-BZ#8	ND		ug/kg	0.925	1
CI3-BZ#18	ND		ug/kg	0.925	1
Cl3-BZ#28	18.4		ug/kg	0.925	1
CI4-BZ#44	ND		ug/kg	0.925	1
CI4-BZ#49	6.46		ug/kg	0.925	1
CI4-BZ#52	15.2		ug/kg	0.925	1
CI4-BZ#66	2.28		ug/kg	0.925	1
CI5-BZ#87	ND		ug/kg	0.925	1
CI5-BZ#101	8.49		ug/kg	0.925	1
CI5-BZ#105	ND		ug/kg	0.925	1
CI5-BZ#118	10.8		ug/kg	0.925	1
CI6-BZ#128	ND		ug/kg	0.925	1
CI6-BZ#138	10.4		ug/kg	0.925	1
Cl6-BZ#153	8.73		ug/kg	0.925	1
CI7-BZ#170	ND		ug/kg	0.925	1
CI7-BZ#180	ND		ug/kg	0.925	1
CI7-BZ#183	ND		ug/kg	0.925	1
CI7-BZ#184	ND		ug/kg	0.925	1
CI7-BZ#187	ND		ug/kg	0.925	1
CI8-BZ#195	ND		ug/kg	0.925	1
CI9-BZ#206	ND		ug/kg	0.925	1
Cl10-BZ#209	ND		ug/kg	0.925	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
DBOB	96		50-125	
BZ 198	69		50-125	



Project Name: NBH PHASE III Lab Number: L1001187

Project Number: 6690.001 **Report Date:** 01/29/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C-SIM Extraction Method: EPA 3570
Analytical Date: 01/28/10 14:55 Extraction Date: 01/25/10 14:11

Analyst: WN Cleanup Method1: ----

Cleanup Date1:

Parameter	Result	Qualifier	Units	RI	DL
PCB Congeners (NOAA List) - Ma	ansfield Lab fo	or sample(s):	01-07	Batch:	WG3979
CI2-BZ#8	ND		ug/kg		0.800
Cl3-BZ#18	ND		ug/kg		0.800
Cl3-BZ#28	ND		ug/kg		0.800
CI4-BZ#44	ND		ug/kg		0.800
CI4-BZ#49	ND		ug/kg		0.800
CI4-BZ#52	ND		ug/kg		0.800
CI4-BZ#66	ND		ug/kg		0.800
CI5-BZ#87	ND		ug/kg		0.800
CI5-BZ#101	ND		ug/kg		0.800
CI5-BZ#105	ND		ug/kg		0.800
CI5-BZ#118	ND		ug/kg		0.800
Cl6-BZ#128	ND		ug/kg		0.800
Cl6-BZ#138	ND		ug/kg		0.800
Cl6-BZ#153	ND		ug/kg		0.800
CI7-BZ#170	ND		ug/kg		0.800
CI7-BZ#180	ND		ug/kg		0.800
CI7-BZ#183	ND		ug/kg		0.800
CI7-BZ#184	ND		ug/kg		0.800
CI7-BZ#187	ND		ug/kg		0.800
CI8-BZ#195	ND		ug/kg		0.800
CI9-BZ#206	ND		ug/kg		0.800
CI10-BZ#209	ND		ug/kg		0.800

			Acceptance	
Surrogate	%Recovery	Qualifier	Criteria	
DBOB	75		50-125	
BZ 198	88		50-125	



Lab Control Sample Analysis Batch Quality Control

Project Name: NBH PHASE III

Project Number: 6690.001

Lab Number: L1001187

Report Date: 01/29/10

Parameter	LCS %Recovery	Qual	%	LCSD Recovery	/ Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Congeners (NOAA List) - Mansfield Lab	Associated sa	mple(s):	01-07	Batch:	WG397971-2	WG397971-3			
CI2-BZ#8	57			73		40-140	25		30
Cl3-BZ#18	56			71		40-140	24		30
Cl3-BZ#28	57			70		40-140	20		30
Cl4-BZ#44	59			72		40-140	20		30
Cl4-BZ#49	47			55		40-140	16		30
Cl4-BZ#52	69			92		40-140	29		30
Cl4-BZ#66	61			75		40-140	21		30
CI5-BZ#87	63			71		40-140	12		30
CI5-BZ#101	58			70		40-140	19		30
CI5-BZ#105	41			50		40-140	20		30
Cl5-BZ#118	63			71		40-140	12		30
CI6-BZ#128	62			75		40-140	19		30
Cl6-BZ#138	62			77		40-140	22		30
Cl6-BZ#153	61			72		40-140	17		30
CI7-BZ#170	68			78		40-140	14		30
CI7-BZ#180	66			75		40-140	13		30
CI7-BZ#183	43			44		40-140	2		30
CI7-BZ#184	59			73		40-140	21		30
CI7-BZ#187	82			102		40-140	22		30
CI8-BZ#195	58			66		40-140	13		30
CI9-BZ#206	67			80		40-140	18		30



Lab Control Sample Analysis Batch Quality Control

Lab Number: L1001187

Report Date: 01/29/10

Project Name: NBH PHASE III

Project Number: 6690.001

Parameter	LCS %Recovery	Qual	LCSD %Recover	y Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Congeners (NOAA List) - Mansfield Lab	Associated samp	ple(s):	01-07 Batch:	WG397971-2	WG397971-3			
CI10-BZ#209	58		70		40-140	19		30

Surrogate	LCS %Recovery Qu	LCSD ual %Recovery Qual	Acceptance Criteria
DBOB	58	73	50-125
BZ 198	69	75	50-125



INORGANICS & MISCELLANEOUS



Project Name: NBH PHASE III Lab Number: L1001187

Project Number: 6690.001 **Report Date:** 01/29/10

SAMPLE RESULTS

Lab ID: L1001187-01 Date Collected: 01/20/10 10:16

Client ID: POST_012010_G1 Date Received: 01/22/10 Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total	76.1		%	0.100	1	-	01/25/09 13:15	30,2540G	KB



Project Name: NBH PHASE III Lab Number: L1001187

Project Number: 6690.001 **Report Date:** 01/29/10

SAMPLE RESULTS

Lab ID: L1001187-02 Date Collected: 01/20/10 12:45

Client ID: POST_012010_TP2 Date Received: 01/22/10 Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
General Chemistry - Mansfield Lab										
Solids, Total	66.0		%	0.100	1	-	01/25/09 13:15	30,2540G	KB	



Project Name: NBH PHASE III Lab Number: L1001187

Project Number: 6690.001 **Report Date:** 01/29/10

SAMPLE RESULTS

 Lab ID:
 L1001187-03
 Date Collected:
 01/20/10 12:17

 Client ID:
 POST_012010_UW1
 Date Received:
 01/22/10

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfie	ld Lab								
Solids, Total	34.5		%	0.100	1	-	01/25/09 13:15	30,2540G	KB



Project Name: NBH PHASE III Lab Number: L1001187

Project Number: 6690.001 Report Date: 01/29/10

SAMPLE RESULTS

Lab ID: L1001187-04 Date Collected: 01/20/10 14:20

Client ID: POST_012010_PACK1 Date Received: 01/22/10 Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - I	Mansfield Lab								
Solids, Total	81.3		%	0.100	1	-	01/25/09 13:15	30,2540G	KB



Project Name: NBH PHASE III Lab Number: L1001187

Project Number: 6690.001 **Report Date:** 01/29/10

SAMPLE RESULTS

Lab ID: L1001187-05 Date Collected: 01/20/10 14:46

Client ID: POST_012010_BHB1 Date Received: 01/22/10 Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Mansfield Lab								
Solids, Total	71.9		%	0.100	1	-	01/25/09 13:15	30,2540G	KB



Project Name: NBH PHASE III Lab Number: L1001187

Project Number: 6690.001 Report Date: 01/29/10

SAMPLE RESULTS

 Lab ID:
 L1001187-06
 Date Collected:
 01/20/10 13:48

 Client ID:
 POST_012010_ONWF1
 Date Received:
 01/22/10

Client ID: POST_012010_ONWF1 Date Received: 01/22/10 Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfie	ld Lab								
Solids, Total	73.9		%	0.100	1	-	01/25/09 13:15	30,2540G	KB



Project Name: NBH PHASE III Lab Number: L1001187

Project Number: 6690.001 **Report Date:** 01/29/10

SAMPLE RESULTS

Lab ID: L1001187-07 Date Collected: 01/20/10 11:20

Client ID: POST_012010_SA1 Date Received: 01/22/10 Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfie	ld Lab								
Solids, Total	80.5		%	0.100	1	-	01/25/09 13:15	30,2540G	KB



Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1001187

01/29/10 Project Number: 6690.001 Report Date:

Parameter	Native	Sample	Duplicate Sam	ple Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab	Associated sample(s): 01-07	QC Batch ID:	WG397944-1 Q	C Sample: L1001187	-01 Clien	nt ID: POST	_012010_G1
Solids, Total	76	6.1	75.3	%	1		20



Project Name:

NBH PHASE III

Project Name: Lab Number: L1001187 NBH PHASE III

Report Date: 01/29/10 Project Number: 6690.001

Sample Receipt and Container Information

YES Were project specific reporting limits specified?

Cooler Information

Cooler **Custody Seal** Α Absent

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis
L1001187-01A	Glass 100ml unpreserved	Α	N/A	3	Υ	Absent	A2-PCBCONG-8270-NOAA(),A2-TS(7)
L1001187-02A	Glass 100ml unpreserved	Α	N/A	3	Υ	Absent	A2-PCBCONG-8270-NOAA(),A2- TS(7)
L1001187-03A	Glass 100ml unpreserved	Α	N/A	3	Υ	Absent	A2-PCBCONG-8270-NOAA(),A2- TS(7)
L1001187-04A	Glass 100ml unpreserved	Α	N/A	3	Υ	Absent	A2-PCBCONG-8270-NOAA(),A2- TS(7)
L1001187-05A	Glass 100ml unpreserved	Α	N/A	3	Υ	Absent	A2-PCBCONG-8270-NOAA(),A2- TS(7)
L1001187-06A	Glass 100ml unpreserved	Α	N/A	3	Υ	Absent	A2-PCBCONG-8270-NOAA(),A2- TS(7)
L1001187-07A	Glass 100ml unpreserved	Α	N/A	3	Υ	Absent	A2-PCBCONG-8270-NOAA(),A2- TS(7)
L1001187-08A	Glass 100ml unpreserved	Α	N/A	3	Υ	Absent	HOLD(14)
L1001187-09A	Glass 100ml unpreserved	Α	N/A	3	Υ	Absent	HOLD(14)
L1001187-10A	Glass 100ml unpreserved	Α	N/A	3	Υ	Absent	HOLD(14)

Project Name:NBH PHASE IIILab Number:L1001187Project Number:6690.001Report Date:01/29/10

GLOSSARY

Acronyms

EPA · Environmental Protection Agency.

 LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD · Laboratory Control Sample Duplicate: Refer to LCS.

MS • Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD · Matrix Spike Sample Duplicate: Refer to MS.

NA · Not Applicable.

NC • Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

ND · Not detected at the reported detection limit for the sample.

NI · Not Ignitable.

RDL • Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E -Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- ${f P}$ The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- J : Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report



Project Name:NBH PHASE IIILab Number:L1001187Project Number:6690.001Report Date:01/29/10

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised December 15, 2009 - Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SM2320B, EPA 120.1, SM2510B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (<u>Inorganic Parameters</u>: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 3005A,3020, 6020, 245.1, 245.7, 1631E, 7470A, 7474, 9014, 120.1, 9050A, 180.1, SM4500H-B, 2320B, 2510B, 2540D,9040. Organic Parameters: EPA 3510C, 5030B, 9010B, 624, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312,3051, 6020, 747A, 7474, 9045C,9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580, 3570, 3540C, 5035, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: 8270C: Biphenyl.

ALPHA	CHAIN OF	CUSTOD	Y PAG	GEC	DF	Date	e Rec'd i	n Lab:			4	ALPH	IA Job#: ∠	1001187	
WESTBORO, MA	MANSFIELD, MA	Project Informatio	n			Re	oort Info	rmation	ı - Data	Delive	rables	Billin	g Information		
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APPENDIX B WATER QUALITY MONITORING SHEETS

PROJECT: 665.00	5 N	BH		Dredge Water Quality Monitoring Form
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IME: 1115	Market Comment	•		NUMBER OF HOURS OF DREDGING:
PS FILE NAME: 0613201	08 00 -	1	-	DISTANCE FROM DREDGE/SILT CURTAIN:
ORTHING:	00-00		_	EASTING:
TIDAL STAGE:	, , , , , , , , , , , , , , , , , , , ,		-	WATER DEPTH: "1. 6'
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			AVE	
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY	NOTES
<u> </u>			(NTUs)	
06/3/2008-00-1-5.4	5 1115	5.5	0.00	DO3.91PF7.71/042812
X61320018 +50-1-20	<u> 1115</u>	120	0.1	DO 5.51 104 7.73/088092.2
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			DOWN-C	
TIME: 1045			DOWN-C	NUMBER OF HOURS OF DREDGING:
	2008-0		DOWN-C	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN:
TIME: VA5 GPS FILE NAME: 04 13 FORTHING: -			DOWN-C	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN: EASTING:
TIME: VA5 SPS FILE NAME: 04 13 TORTHING: -		10:11	DOWN-C	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN:
TIME: VA5 GPS FILE NAME: 04 13 NORTHING: -			DOWN-C	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN: EASTING:
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Monitoring ID #	Was @ TIME 1045 1047	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN: EASTING: WATER DEPTH: 7.0' NOTES TEMP 20.7'C 46.39 mSkm³ / 42.14 mskm/70.5/.
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Monitoring ID #	Was @ TIME 1045 1047	10: ((DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN: EASTING: WATER DEPTH: 7.0' NOTES TEMP 20.7'C 46.39 mSkm³ / 42.14 mskm/70.5/.
Monitoring ID #	Was @ TIME 1045 1047	10: ((DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN: EASTING: WATER DEPTH: 7.0' NOTES TEMP 20.7'C 46.39 mSkm³ / 42.14 mskm/70.5/.
Monitoring ID #	Was @ TIME 1045 1047	10: ((DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN: EASTING: WATER DEPTH: 7.0' NOTES TEMP 20.7'C 46.39 mSkm³ / 42.14 mskm/70.5/.
rime: W45 gps file name: 04 13 northing: - ridal stage: LoW fide	Was @ TIME 1045 1047	10: ((DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN: EASTING: WATER DEPTH: 7.0' NOTES TEMP 20.7'C 46.39 mSkm³ / 42.14 mskm/70.5/.
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Monitoring ID #	Was @ TIME 1045 1047	10: ((DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN: EASTING: WATER DEPTH: 7.0' NOTES TEMP 20.7'C 46.39 mSkm³ / 42.14 mskm/70.5/.
Monitoring ID #	Was @ TIME 1045 1047	10: ((DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN: EASTING: WATER DEPTH: 7.0' NOTES TEMP 20.7'C 46.39 mSkm³ / 42.14 mskm/70.5/.

2008 WQ Monitoring Form

TURBIDITY INCREASE*:

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

Dredge Disposal Water Quali PROJECT: NBH-CADI JOB NUMBER: 6615.005.0 DATE: 6/14/08 DISPOSAL EVENT: MONITORS: TEA MAYTING I CHAS MOMS WEATHER CONDITIONS: CLEAR, CAIM, 70°F WIND: COOL BORRE PRIOR STORM EVENTS: NONE **UP-CURRENT** TIME: 07:15am TIME OF DISPOSAL: GPS FILE NAME:061408 DISTANCE FROM DISPOSAL LOCATION: 813208.62 NORTHING: PP. ON 1631 POLS **EASTING:** TIDAL STAGE: High to Low WATER DEPTH: 7.8 AVG NOTES TIME DEPTH (ft) TURBIDITY Monitoring ID # OKP Temp OCT Spoles. (NTUs) <u>20.56</u>℃ 42.85 uslen 061408-00-1-5.5 9170 7.847H 4.2L DO 6.5 111. 2 ORD 42.79 when 493 \overline{o} 2.0 20.84 7.82pH o 061408-00-1-2.0 0720 1225 42,97 3.25 О 20.84 4.74 7.87.74. ن 061408-00-1-3.25 0721 13.2 O 2093 CK1408-04-9-2.5 6 B 225 42.83 7 78 242.2 Z 21 63 70 B 0 B24 0,2 42.76 7,77 061406-01-4-40 2.75 7529 - 3 06 1408-01-9-30 0 829 20.43 42.67 7.16 2581 2,68 43.34 Z1.45 7.00 7,79 OL1408~13-1-30 10 (7 108.3 0 DE 1408-63-1. 2.5 43.34 21.48 10 19 À, 7.79 7,19 137.4 43.37 7.7 10 X1 21/57 iŠe. i 7.78 . 7 20.78 43,84 061408 703-9-3 1032 ٦ 778 753 2:49 2_ 1035 2152 Z 43,38 262.1 Z 061908, -03-9 7 7 79 2.69 43.35 061408 - 03 -9 - 2.5 2 ていず 7.79 Z71.0 Z, な.5 1037 2.81 **AVERAGE TURBIDITY: DISPOSAL LOCATION** TIME: TIME OF DISPOSAL: DISTANCE FROM DISPOSAL LOCATION: GPS FILE NAME: NORTHING: **EASTING:** TIDAL STAGE: WATER DEPTH: AVG TIME DEPTH (ft) TURBIDITY NOTES Monitoring ID # (NTUs)

AVERAGE TURBIDITY:



* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

			DOWN-C	URRENT
TIME:				TIME OF DISPOSAL:
GPS FILE NAME:				DISTANCE FROM DISPOSAL LOCATION:
NORTHING:		· · · · · · · · · · · · · · · · · · ·		EASTING:
TIDAL STAGE:		W. Commission of the Commissio		WATER DEPTH:
			,	
1	**************************************			,
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	PH Tem Splen ERP DO TUTO
C61408- US-1-Z	1240	3	D D	682 22.17 43.47 444.5 3.81 0
DEHOB - 05-1-3	1242	3	O	6.84 22.10 4390 461.5 3.69 0
661108-05-1-25	1244	2.5	D	6.89 22.16 44.00 469.5 2.73 C
061408 - 05-9 - 6	1258	(e	ì	7.19 2106 43.02 484.4 Z 66 1
C61408 - 65 -9 - 2	1233	ĩ.	1	7.25 21.67 43.54 4851 3.30 1
OUIAU8- 05 -9-4	1254	4	(7.34 21.60 43.42 484,1 3.18 1
00148-07-1-2	1431	2		275 72,36 44.27 203.7 8.05 2.7
06 1408-07-1-4	1623	4		769 22.25 44.20 238.1 6.47 2.3
061908-07-1-6	1234	٠	······································	7. W. 21.53 46,74 2681 6.14 1,1
06.1808-07-9-8	1649	8		7.87 21.23 43.47 362,22.63 0
061808-07-9-9-	ا ک طا	2	!	7.57 22.24 46.16 365.4 2.38 3.5
061808-07-95	1653	5		7.87 21.73 43.84 361.22-370
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AVERAGE TURBIDITY:				

2008 WQ Disposal Monitoring Form

TURBIDITY INCREASE":

PROJECT: NOSH					Dredge Water Quality	Monitoring Form
	10-200	-		**************************************		
DATE: (41/6/08)		**************************************			*	
MONITORS: MIS JIZ		***************************************	· · · · · · · · · · · · · · · · · · ·		/A\	
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	CHEL CA	<u> </u>			/ /~ ~\`	
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	10/16	······	····		Washington and the same of the	
DREDGE UPDATE: 12/2						
TYPE OF WATER QUALITY MO	ONITORING:	Pre Dre	ملال			
		<u></u>				
			<u>UP-CU</u>	RRENT		
TIME: 1445				NUMBER OF HOURS OF DRE	DGING: 195	
	~~ !		•	***************************************		
GPS FILE NAME: ()()()	<u> </u>		•	DISTANCE FROM DREDGE/SI	LI CURIAIN:	
NORTHING:				EASTING:		
TIDAL STAGE: LOW-	* H161+			WATER DEPTH: 46.C	<u> </u>	
	****	D. M. W. W. L.	AVE		•	
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY (NTUs)	DO PH O	LP	NOTES
0.50	11:	70				
06/808-32-1	1645	32_	મધે 🗓	203 786 2	27.1	
1-5-80819	1648	1 2		8.18 7.86 2	10.0	
061808-15-1	1653	15	-0.3	2.25 7.87 2	14.8	
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AVERAGE TURBIDITY:						·
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	Pre-	-Dump	DOWN-C	URRENT		
- 11.70	Pre-	Durp	DOWN-C			
TIME: \(\((30)\)		Dup	DOWN-C	NUMBER OF HOURS OF DRE		
GPS FILE NAME: CLILLO		-Dump	DOWN-C	NUMBER OF HOURS OF DRE		
		-Dump	DOWN-C	NUMBER OF HOURS OF DREDISTANCE FROM DREDGE/SIEASTING:		
GPS FILE NAME: CLILLO	3-9	-Drp	DOWN-C	NUMBER OF HOURS OF DRE		
GPS FILE NAME: CONLOS NORTHING:	3-9	-Durp	DOWN-C	NUMBER OF HOURS OF DREDISTANCE FROM DREDGE/SIEASTING:		
GPS FILE NAME: CONLOS NORTHING:	3-9	-Drp	DOWN-C	NUMBER OF HOURS OF DREDISTANCE FROM DREDGE/SIEASTING:		
GPS FILE NAME: COLO O NORTHING: TIDAL STAGE: LOW ラ	3-9 High			NUMBER OF HOURS OF DREDISTANCE FROM DREDGE/SIEASTING:		
GPS FILE NAME: CONLOS NORTHING:	3-9	DEPTH (ft)	AVE TURBIDITY	NUMBER OF HOURS OF DREDISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20	LT CURTAIN:	NOTES
GPS FILE NAME: (人)しの NORTHING: TIDAL STAGE: しびょう Monitoring ID #	3-9 High	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DRE DISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20	LT CURTAIN:	NOTES
Monitoring ID #	3-9 High TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20 DO Ph 5-21 7-8	LT CURTAIN:	NOTES
Monitoring ID #	7 TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DRE DISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20 DO Ph 5.21 7.8 7.28 7.88	ORP 149.5 131.6	NOTES
Monitoring ID #	3-9 High TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DRE DISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20 DO Ph 5-21 7-8 7-28 7-88	LT CURTAIN:	NOTES
Monitoring ID #	7 TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DRE DISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20 DO Ph 5.21 7.8 7.28 7.88	ORP 149.5 131.6	NOTES
Monitoring ID #	7 TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DRE DISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20 DO Ph 5.21 7.8 7.28 7.88	ORP 149.5 131.6	NOTES
Monitoring ID #	7 TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DRE DISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20 DO Ph 5.21 7.8 7.28 7.88	ORP 149.5 131.6	NOTES
Monitoring ID #	7 TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DRE DISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20 DO Ph 5.21 7.8 7.28 7.88	ORP 149.5 131.6	NOTES
Monitoring ID #	7 TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DRE DISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20 DO Ph 5.21 7.8 7.28 7.88	ORP 149.5 131.6	NOTES
Monitoring ID #	7 TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DRE DISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20 DO Ph 5.21 7.8 7.28 7.88	ORP 149.5 131.6	NOTES
Monitoring ID #	7 TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DRE DISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20 DO Ph 5.21 7.8 7.28 7.88	ORP 149.5 131.6	NOTES
Monitoring ID #	7 TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DRE DISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20 DO Ph 5.21 7.8 7.28 7.88	ORP 149.5 131.6	NOTES
Monitoring ID #	7 TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DRE DISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20 DO Ph 5.21 7.8 7.28 7.88	ORP 149.5 131.6	NOTES
Monitoring ID #	7 TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DRE DISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20 DO Ph 5.21 7.8 7.28 7.88	ORP 149.5 131.6	NOTES
Monitoring ID #	7 TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DRE DISTANCE FROM DREDGE/SI EASTING: WATER DEPTH: 20 DO Ph 5.21 7.8 7.28 7.88	ORP 149.5 131.6	NOTES

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT: NBH-TOD	of CAB C	ell 2		Dre:	dge Water Quality Monitoring Form
JOB NUMBER: 6615.005.					
DATE: 6 19 08					A
MONITORS: Jen martino	4 Chris	morris	100, TT. 100, TE. 100	,	
WEATHER CONDITIONS: 5M	MLA . (A)	1.70°F			
WIND: Slight breeze		<u></u>			
PRIOR STORM EVENTS: NA	***************************************				*
DREDGE UPDATE: Pro - Dro	dge WO	Monitori	Y)(a)		
TYPE OF WATER QUALITY MON	ITORING: P	re-Dredo	je WO A	Monitoring (up-coment)	
		. w in a commonn	UP-CU	RRENT	
TIME: 0800 hrs				NUMBER OF HOURS OF DREDGING:	δO
GPS FILE NAME: 0619 08-	DD-1	<u></u>	•	DISTANCE FROM DREDGE/SILT CURTA	
NORTHING: 2695762.				EASTING: 815597.93	
TIDAL STAGE: FISON		aiah)	•	WATER DEPTH: 8.0 Cost	
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)		NOTES
061908-00-1-2	0810	2,6	5.2		
061908-00-1-4	0815	4.0	6.3		
061908-00-1-6	0820	۵.۵	6.7		
		Total:	18.2/	= 6.06	VI. M
AVERAGE TURBIDITY: 6.0	> NTU		/3	· · · · · · · · · · · · · · · · · · ·	

			DOWN-C	CURRENT
TIME: 0830 hys.				NUMBER OF HOURS OF DREDGING: DO
GPS FILE NAME: 061908-	OD- 9		•	DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet
NORTHING: 269 6242.	76 N		•	EASTING: BISS79.98 E
TIDAL STAGE: FLOOD (L		(طهن		WATER DEPTH: 8.4 feet
	· · · · ·		•	
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NOTES
061908-00-9-2	0835	ව.ප	(.3	
06908-00-9- 4	0840	4.0	1 - 1	
061908-00-9-6	0045	6.0	4.1	
**************************************		**************************************		
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	<u> </u>	- 1 - 1 -		- 0.17
AVERAGE TURRIDITY: Q.O	. 1787	Total:	1 6.2/	<u> </u>

TURBIDITY INCREASE*: 2.2 NTU - 6.0 NTU = -3.8 NTU
*Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

2008 WQ Monitoring Form

619 68

Dredge Disposal Water Quality Monitoring Form PROJECT: NBH - TOPOP CAT) JOB NUMBER: 6615.005.01 DATE: 6/19/08 MONITORS: Jen Martino + Chris Morris WEATHER CONDITIONS: Cloudy Sunny, warm ~ 75°F WIND: Light breeze PRIOR STORM EVENTS: **UP-CURRENT** TIME: 1200 hrs. TIME OF DISPOSAL: 1200 hrs GPS FILE NAME: 061908-05-1 DISTANCE FROM DISPOSAL LOCATION: NORTHING: 2696029 EASTING: 814946,07 TIDAL STAGE: abb (High to low WATER DEPTH: 40 Feet AVG Monitoring ID # TIME DEPTH (ft) TURBIDITY NOTES (NTUs) 27.9 061908-05-1-2 1150 2:0 061908-05-1-16 1155 31-0 16.0 061908-05-1-38 1200 38.0 1 **AVERAGE TURBIDITY: DISPOSAL LOCATION** TIME OF DISPOSAL: 1200 hrs TIME: 1205 hrs DISTANCE FROM DISPOSAL LOCATION: PORTER (COLOCATION) GPS FILE NAME: 061908 - D2 - 05 m. NORTHING: 2695906 EASTING: 814821 TIDAL STAGE: Ebb (High to low WATER DEPTH: 43 Feet AVG TIME DEPTH (ft) TURBIDITY NOTES Monitoring ID # (NTUs) 061908-12-05-2 1215 9.D 1990 20.0 061908-12-05-20 161908-12-05-40 1225 40.0

TURBIDITY INCREAS Popilioring Form

AVERAGE TURBIDITY:

* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity



TIME: 1330 N/S GPS FILE NAME: 061908-05-9 MORTHMO: 049615152 TIME 0F DISPOSAL: 1200 N/S DISTANCE FROM DISPOSAL LOCATION: 300FCCC EASTING: 3H4951 WATER DEPTH: 1364. MORITORING 10 s TIME 0 DEPTH (N) TORRIGHY TORRIGHY NOTES O6.1908-05-9-8 1210 VO. 0 L. 10 S O6.1908-05-9-90 1210 VO. 0 L. 10 S AVERAGE TURBIDITY: TURBIDITY INCREASE: **Toukidly increase - Down Current Average Turbidity - up Current Average Turbidity TURBIDITY INCREASE:		, , , , , , , , , , , , , , , , , , ,	·	DOWN-C	URRENT
Monitoring ID 8 TIME DEPTH (R) TURBUTY TURBU	TIME: 1230 hrs				TIME OF DISPOSAL 15 DO Les
Monitoring ID 8 TIME DEPTH (R) TURBUTY TURBU	GPS FILE NAME: 06 (9.0	8-05-	a	•	DISTANCE EPOM DISPOSAL LOCATION: 200 Fees
Monitoring ID 8 TIME DEPTH (R) TURBUTY TURBU	NORTHING: 2695757) .		•	EASTING: SILVEST
Monitoring ID 8 TIME DEPTH (R) TURBUTY TURBU	TIDAL STAGE: ELL /L	tich by I	(بيره	-	WATER DEPTH: 73C+
Monitoring 10 9 TiME DEPTH (N) TURBORY NOTES 0/6/19/8 - 0.5 - 9.0 173.0 70 015 0/6/19/8 - 0.5 - 9.0 12.35 20.0 0.6 0/6/19/8 - 0.5 - 9.0 12.35 20.0 0.6 0/6/19/8 - 0.5 - 9.0 12.40 12.40 11.40 AVERAGE TURBIDITY:		9.1		• '	
Monitoring 10 9 TiME DEPTH (N) TURBORY NOTES 0/6/19/8 - 0.5 - 9.0 173.0 70 015 0/6/19/8 - 0.5 - 9.0 12.35 20.0 0.6 0/6/19/8 - 0.5 - 9.0 12.35 20.0 0.6 0/6/19/8 - 0.5 - 9.0 12.40 12.40 11.40 AVERAGE TURBIDITY:		**************************************		~	
06 F108 - 05 - 9-90 12-35 20.0 0.6 06 F108 - 05 - 9-90 12-90 12-90 11-90				TURBIDITY	NOTES
06 F108 - 05 - 9-90 12-35 20.0 0.6 06 F108 - 05 - 9-90 12-90 12-90 11-90	061908-05-9-2	1230	7.0	0.5	778
AVERAGE TURBIDITY:	061908-05-9-20	12.35			
AVERAGE TURBIDITY:	06 1908-05-9-40	1240			
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TURBIDITY INCREASE*: * Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity	AVERAGE TURBIDITY:			and the second s	
	TURRIDITY INCREASES:				* Turbidity Increase = Down-Current Average Turbidity - Us-Current Average Turbidity

ROJECT: NBH - TOP DB NUMBER: GUS - 00 S ATE: 6/24/08				Dredge Water Quality Monitoring For
TE: 6/24/68			·	
				, A
NITORS: Jen mart	10 × 4 10	-L Pau		
ATHER CONDITIONS: CL	MAN AUG.	Sa Ich		A MOOK
ND: LOOI breeze	Ar, 000.	T CO	SOT A	
IOR STORM EVENTS:	4	<u> </u>	······································	
			w	
EDGE UPDATE:	<u>Cdat</u>	bookes	·	
PE OF WATER QUALITY MO	MITORING: C	DO W UP	<u>wrea</u>	it downcucent turbidity
		-	UP-CUF	RRENT
				MILIMOED OF HOUSE OF PREPORIC.
E: 0750 hrs		71.33	•	NOMBER OF HOOKS OF DREDGING:
S FILE NAME: 062402	2-00-1	(dredg	(-)	DISTANCE FROM DREDGE/SILT CURTAIN: 200 [1
RTHING: 2495793	· · · · · · · · · · · · · · · · · · ·		•	EASTING: \$15 466
AL STAGE: Flood			•	WATER DEPTH: 10 C+.
				•
				•
			AVE	•
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY	NOTES
			(NTUs)	**
2408-00-1-2		2.0	0.0	
62408-00-1-5	0765	5.0	0.2	
62408-00-1-8	0000	8.0	0.0	
Market and a second a second and a second an				
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	Nednonconstitutura en		DOWN-CI	URRENT
,	malanasaari ^{nonannoo} nnan sansanasaasa		DOWN-CI	······································
			DOWN-C	NUMBER OF HOURS OF DREDGING:
AE: 0800 L/S S FILE NAME: 06 240	8.00-	7	DOWN-CI	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet
ne: 0800 105 S FILE NAME: 06 240 RTHING: 269 631	8.00-	1	DOWN-CI	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344
AE: 0800 105 S FILE NAME: 06 240 RTHING: 269 631	8-00-	7	DOWN-CI	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet
ME: 0800 L/S S FILE NAME: 06 240 RTHING: 269-631	8-00-	7	DOWN-CI	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
ME: 0800 L/S S FILE NAME: 06 240 DRTHING: 269-631	8-00-	1	•	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344
ME: DB DO LISS SFILE NAME: 06 24 0 PRTHING: 269-631 DAL STAGE: Flood				NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
ME: 0800 13 S FILE NAME: 06 2400 RTHING: 269 631 DAL STAGE: Plood	5 5 - TIME	DEPTH (ft)	•	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
ME: DB DD LYS S FILE NAME: 06 24 0 RTHING: 269 631 OAL STAGE: Flood Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
ME: DB DO LAS SFILE NAME: 06 24 0 ORTHING: 269 631 DAL STAGE: Flood	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
ME: DB DD L/S S FILE NAME: 06 24 0 DRTHING: 269*631 DAL STAGE: Flood Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
ME: DB DD L/S S FILE NAME: 06 24 0 DRTHING: 269*631 DAL STAGE: Flood Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet
Me: DB Do Lys S FILE NAME: 06 24 0 ORTHING: 26 9 631 DAL STAGE: Flood Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 66 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet EASTING: 815344 WATER DEPTH: 6 Feet

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT: NBH-DIC	dae 7	Top of C	AA	Dredge Water Quality Monitoring Form
PROJECT: NBH-DIC	. 61			
DATE: 6/24/08			·····	A
WONITORS: Jen martin	a + Josi	PRU	***************************************	
WEATHER CONDITIONS: Sun	nee hol	Clear	Shire	
NIND: Slight breeze	7			
PRIOR STORM EVENTS:	<u> </u>			· · · · · · · · · · · · · · · · · · ·
REDGE UPDATE: 02 how		4-4-		v
TYPE OF WATER QUALITY MON	ITORING: _L		10.1.0	2 WR - upurent + down errent
		TPILLY	areas	E WIN - DPANTERT TABLE ENTER.
		<u></u>	UP-CUR	RENT
				· · · · · · · · · · · · · · · · · · ·
IME: 1000 hrs			•	NUMBER OF HOURS OF DREDGING: D 2
SPS FILE NAME: 06242	8-02	- 1	_	DISTANCE FROM DREDGE/SILT CURTAIN: 200 F.
NORTHING: 2695844	f			EASTING: 915392
IDAL STAGE: FISCE				WATER DEPTH: 31 Feet
			•	
				•
			AVE	•
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY	NOTES
			(NTUs)	
062408-02-1-2	1000	2.0	-0.2	
062408-02-1-13		3.0	-0.2	
662408-02-1-29		29.0	2.1	
302708-02-1-21		7.0		\\
			·	
				•
	RUTU	totali	1.7/3	- D. M.S
	- Hand		1.7/3	= 2.48.5
AVERAGE TURBIDITY:	- Hand		DOWN-CI	
	- Hand			URRENT
FIME: 1010 W.S.				URRENT NUMBER OF HOURS OF DREDGING: 02
FIME: 1010 W/S. GPS FILE NAME: 06240	S-02-			URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 200 F.+.
TIME: 1010 M/S. SPS FILE NAME: 06240 NORTHING: 264649	S-02-			URRENT NUMBER OF HOURS OF DREDGING: 0 2 DISTANCE FROM DREDGE/SILT CURTAIN: 200 F EASTING: 815 278
TIME: 1010 U/S. SPS FILE NAME: 06240 NORTHING: 264649	S-02-			URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 200 F.
TIME: 1010 U/S. SPS FILE NAME: 06240 NORTHING: 264649	S-02-			URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 200 F.L. EASTING: 815 278
FIME: 1010 W/S. GPS FILE NAME: 06240	S-02-		DOWN-CI	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 200 F.L. EASTING: 815 278
TIME: 1010 M/S. SPS FILE NAME: 062404 FINANCE: 269649 FINAL STAGE: FLOOR	B-02-	4	DOWN-CI	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 2.0 C+. EASTING: 815278 WATER DEPTH: 7.5 F
TIME: 1010 U/S. SPS FILE NAME: 06240 NORTHING: 264649	S-02-		DOWN-CI	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 200 F.L. EASTING: 815 278
IME: 1010 M/S. SPS FILE NAME: 062404 IORTHING: 264649 IDAL STAGE: FLOOR Monitoring ID#	6-02- 3	DEPTH (ft)	DOWN-CL DOWN-CL AVE TURBIDITY (NTUs)	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 2.0 C+. EASTING: 815278 WATER DEPTH: 7.5 F
Me: 1010 M/S. SPS FILE NAME: 062404 IORTHING: 264649 IDAL STAGE: Flood Monitoring ID#	B-02-3	ОЕРТН (ft)	DOWN-CI DOWN-CI AVE TURBIDITY (NTUs)	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 2.0 C+. EASTING: 815278 WATER DEPTH: 7.5 F
ME: 1010 M/S. SPS FILE NAME: 062404 IORTHING: 269649 IDAL STAGE: Flood Monitoring ID #	TIME	G DEPTH (ft)	DOWN-CI AVE TURBIDITY (NTUS) J.1	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 2.0 C+. EASTING: 815278 WATER DEPTH: 7.5 F
ME: 1010 M/S. SPS FILE NAME: 062404 IORTHING: 269649 IDAL STAGE: Flood Monitoring ID #	TIME	G DEPTH (ft)	DOWN-CI DOWN-CI AVE TURBIDITY (NTUs)	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 2.0 C+. EASTING: 815278 WATER DEPTH: 7.5 F
ME: 1010 M/S. IPS FILE NAME: 062404 IDAL STAGE: FLOOR Monitoring ID #	TIME	G DEPTH (ft)	DOWN-CI AVE TURBIDITY (NTUS) J.1	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 200 F.+. EASTING: 815 278 WATER DEPTH: 7.5 F
ME: 1010 M/S. SPS FILE NAME: 062404 SPS FILE NAME: 269649 SIDAL STAGE: FLOOR Monitoring ID # 262408-02-9-2	TIME	G DEPTH (ft)	DOWN-CI AVE TURBIDITY (NTUS) J.1	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 200 F.+. EASTING: 815 278 WATER DEPTH: 7.5 F
ME: 1010 M/S. SPS FILE NAME: 062404 IORTHING: 269649 IDAL STAGE: Flood Monitoring ID #	TIME	G DEPTH (ft)	DOWN-CI AVE TURBIDITY (NTUS) J.1	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 200 F.+. EASTING: 815 278 WATER DEPTH: 7.5 F
ME: 1010 M/S. SPS FILE NAME: 062404 IORTHING: 269649 IDAL STAGE: Flood Monitoring ID #	TIME	G DEPTH (ft)	DOWN-CI AVE TURBIDITY (NTUS) J.1	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 2.0 C+. EASTING: 815278 WATER DEPTH: 7.5 F
ME: 1010 M/S. SPS FILE NAME: 062404 SPS FILE NAME: 269649 SIDAL STAGE: FLOOR Monitoring ID # 262408-02-9-2	TIME	G DEPTH (ft)	DOWN-CI AVE TURBIDITY (NTUS) J.1	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 200 F.+. EASTING: 815 278 WATER DEPTH: 7.5 F
ME: 1010 M/S. SPS FILE NAME: 062404 IORTHING: 269649 IDAL STAGE: Flood Monitoring ID #	TIME	G DEPTH (ft)	DOWN-CI AVE TURBIDITY (NTUS) J.1	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 200 F.+. EASTING: 815 278 WATER DEPTH: 7.5 F
ME: 1010 M/S. SPS FILE NAME: 062404 IORTHING: 269649 IDAL STAGE: Flood Monitoring ID #	TIME	G DEPTH (ft)	DOWN-CI AVE TURBIDITY (NTUS) J.1	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 200 F.+. EASTING: 815 278 WATER DEPTH: 7.5 F
Monitoring ID #	TIME	G DEPTH (ft)	DOWN-CI AVE TURBIDITY (NTUS) J.1	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 200 F.+. EASTING: 815 278 WATER DEPTH: 7.5 F
TIME: 1010 M/S. SPS FILE NAME: 062404 FINANCE: 269649 FINAL STAGE: FLOOR	TIME	G DEPTH (ft)	DOWN-CI AVE TURBIDITY (NTUS) J.1	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 2.0 C+. EASTING: 815278 WATER DEPTH: 7.5 F
Monitoring ID #	TIME	G DEPTH (ft)	DOWN-CI AVE TURBIDITY (NTUS) J.1	URRENT NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 2.0 C+. EASTING: 815278 WATER DEPTH: 7.5 F
ME: 1010 M/S. SPS FILE NAME: 062404 SPS FILE NAME: 269649 SIDAL STAGE: FLOOR Monitoring ID # 262408-02-9-2	TIME P 1010 P 1020	G DEPTH (ft)	DOWN-CI AVE TURBIDITY (NTUS) J.1	NUMBER OF HOURS OF DREDGING: 02 DISTANCE FROM DREDGE/SILT CURTAIN: 200 Ft. EASTING: \$15 278 WATER DEPTH: 7.5 feet

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

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PROJECT: NON		· · · · · · · · · · · · · · · · · · ·		Dredge Water Quality Monitoring Form
JOB NUMBER: (2015.05	1/431			
DATE: 9/20/88				
MONITORS:				
WEATHER CONDITIONS:			·····	
WIND:				
~~~				
PRIOR STORM EVENTS:			·	
DREDGE UPDATE:				
TYPE OF WATER QUALITY MON	IITORING:	······		
	Leannan		UP-CU	RENT
			<u> </u>	······································
TIME: 10:05				NUMBER OF HOURS OF DREDGING: 00
GPS FILE NAME: 62604 -	100-1			DISTANCE FROM DREDGE/SILT CURTAIN: 200
NORTHING: 2695961				EASTING: 915594
	<u> </u>			
TIDAL STAGE: 1100)				WATER DEPTH: 4,7
:			AVE	•
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY	NOTES
7,7	*******		(NTUs)	ישרי פוער ו יוויי די
6-1-00-8026JO	1005	2	0.3	
		3	1.5	
	1005			
663608-06-1-4	1006	Ч	૩, તે	
	l			
	Activities and Activi		-	<u></u>
	***************************************		DOWN-C	URRENT
TIME: 10()				NUMBER OF HOURS OF DREDGING: #
GPS FILE NAME: 04208-0	111 -9		•	
	~ <del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>			
NORTHING: <u>るしずゃしょう</u>	5			EASTING: \$151,94
TIDAL STAGE: I ( 1/2 )				WATER DEPTH: 5
`.			•	· *,
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY	NOTES
06-74-8-74-7-2-7-2-7-2-7-2-7-2-7-2-7-2-7-2-7-2-	1 /// //	7	(NTUs)	T
062658-60-9-2	10117	3	(NTUs)	
062608-100-19-4	10/7		(NTUs)	
			(NTUs)	
062608-100-19-4	10/7		(NTUs)	
062608-100-19-4	10/7		(NTUs)	
062608-100-19-4	10/7 10:17		(NTUs)	
062608-100-19-4	10/7 10:17		(NTUs)	
062608-100-19-4	10/7 10:17		(NTUs)	
062608-100-19-4	10/7 10:17		(NTUs)	
062608-100-19-4	10/7 10:17	'-!	(NTUs)	
062608-100-19-4	10/7 10:17	'-!	(NTUs)	
062608-100-19-4	10/7 10:17	'-!	(NTUs)	
062608-100-19-4	10/7 10:17	'-!	(NTUs)	
062608-100-19-4	10/7 10:17	'-!	(NTUs)	
062608-100-19-4	10/7 10:17	'-!	(NTUs)	
062608-100-19-4	10/7 10:17	'-!	(NTUs)	

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity 2008 WQ Monitoring Form

Penierr Alder	0.40	•		Product Mileson and the state of	
JOB NUMBER: 6615.00	<u> PECAD</u>	······································		Dredge Water Quality Monitoring For	ንነ1
DATE: 6/26/08	3:01		<del></del>	A	
MONITORS: Jen mart	NOL N	arren	<u> </u>	<u> </u>	
WEATHER CONDITIONS: (1)	udu i	1 65°F			,
WIND: Slightly bree	24		***************************************		ı.
PRIOR STORM EVENTS: Val	ы		· · · · · · · · · · · · · · · · · · ·	<i>f</i>	
DREDGE UPDATE: 02 hr	s -du	noma	nto Sco	₩ SE-104	
TYPE OF WATER QUALITY MON	ITORING: 'T	Whide	4 - 40 t	-down wrent	
, , , , , , , , , , , , , , , , , , ,		•	······································		
ļ.			UP-CUR	RRENT	
TIME: (150				NUMBER OF HOURS OF DREDGING: 02	
GPS FILE NAME: 062609	> - 62 -	- 1	•	DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet	
NORTHING: 269584		***************************************	•	EASTING: 815400	
TIDAL STAGE: FLOOR			•	WATER DEPTH: 31 Fret	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			•		#*************************************
1					
Monitoring ID #	TIME	DEPTH (ft)	AVE	, 10750	
Montoning to #	t isyic;	DEF (16)	TURBIDITY (NTUs)	NOTES	
062603-02-1-2	11:52	a	4-0.	8	<del></del>
062608-02-1-14		14	# O.1		
0103608-03-1-28		28	96 17		***************************************
					***************************************
			······································		
				·	
AVERAGE TURBIDITY:		······································	·····		
• •	* .				
` <b>\</b>					
		72	201111	( * ye   ye   ye   Z   TF	
			DOWN-C	·	
TIME: (155				NUMBER OF HOURS OF DREDGING: 02	
GPS FILE NAME:			•	DISTANCE FROM DREDGE/SILT CURTAIN: 240 F.4	***************************************
NORTHING: 269 Carl 6	<u> </u>	,		EASTING: \$15755 (1)	
TIDAL STAGE: Flood			<del>.</del>	WATER DEPTH: 9	.,,
			•	815503 (2)	
26965560 (	_ລ)		a b 499		
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY	WD 7.5 (2) NOTES	
			(NTUs)		
06 2608-02-9-2		3	0,5		
06 3608-63-19-5	1157	5	9.7		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
70203-62-4-18	1200	క్ర	6.4		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
110 N 480 -330 -35 - 5			1.5		
063608-02-1-3	1/202	3	0.5		***************************************
06 208-01-9-4 06 208-02-9-5	1205	5	0,0		<u>Imparations</u>
DV MOS OA 1 P		<del>                                     </del>	<del>  -, -, -</del>		Paragramment and red
			<u> </u>		
		***************************************	***************************************		
		1	I		

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

OB NUMBER: 6615.00	19:		·. <del></del>	<del></del>	, <u>.</u>
ATE: 6/26/08					· 🛕
ONITORS: Jen Mart	motw	accento			Minar
HATHER CONDITIONS:		aw, -	70. F	hunsid	
RIOR STORM EVENTS:					. /
· · · · · · · · · · · · · · · · · · ·	and a	DI of		t, up-current/down	
YPE OF WATER QUALITY MON	ITORING:	Tiveid	L	1/2	Shrent .
		1 22 -1	14 = K		•
MATTER AND				7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	<u> </u>
			<u>UP-CUI</u>	KKENI	
ME: 1600			•	NUMBER OF HOURS OF DREDGING:	06
PS FILE NAME:			•	DISTANCE FROM DREDGE/SILT CURTAIN	1: 200ff.
ORTHING: 2696430	<u> </u>			EASTING: 815.768	
DAL STAGE: 666			•	WATER DEPTH: 10 Fact	
			<u> </u>		•
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY		NOTES
· · · · · · · · · · · · · · · · · · ·			(NTUs)		
062608-06-1-2	1600	A	-0.5		
262608-06-1-5	1403	5	-0.6		
	1605	<u> </u>	-0.7		·····
	1	i	ł	i .	
VERAGE TURBIDITY:	,				
VERAGE TURBIDITY:			DOWN-C	URRENT	
			DOWN-C		06
IME: 1667			DOWN-C	NUMBER OF HOURS OF DREDGING:	06 N. 200 Fee L
ime: 1667 :PS file Name: 062606		9	DOWN-C	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAI	
ime: 1667 PS file Name: 052609 IORTHING: 264586		9	DOWN-C	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$156.74	
ime: 1667 PS file Name: 052609 IORTHING: 264586		9	DOWN-C	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$156.74	
ime: 1667 PS FILE NAME: 052601 IORTHING: 267586 IDAL STAGE: 266		9	DOWN-C	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	
ime: 1667 ips file name: 062600 iorthing: 264586 idal stage: 866	. 1		AVE	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	4: 200 feet
ime: 1667 PS file Name: 052601 ORTHING: 267586 IDAL STAGE: 266		P DEPTH (fft)	• ,	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	
ime: 1667 PS FILE NAME: 062606 ORTHING: 264566 IDAL STAGE: 566 Monitoring ID#	TIME	DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	4: 200 feet
ime: 1667 PS FILE NAME: 062609 ORTHING: 264566 IDAL STAGE: 566  Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	4: 200 feet
ME: 167 PS FILE NAME: 052609 ORTHING: 267586 DAL STAGE: E66  Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	4: 200 feet
ME: 167 PS FILE NAME: 052609 ORTHING: 267586 DAL STAGE: E66  Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	4: 200 feet
ME: 1667 PS FILE NAME: 092609 ORTHING: 267586 DAL STAGE: 566  Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	4: 200 feet
ME: 167 PS FILE NAME: 052609 ORTHING: 267586 DAL STAGE: E66  Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	4: 200 feet
ime: 1607 PS FILE NAME: 052609 ORTHING: 264566 IDAL STAGE: E66  Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	4: 200 feet
ime: 1667 PS FILE NAME: 062606 ORTHING: 264566 IDAL STAGE: 566 Monitoring ID#	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	4: 200 feet
ime: 1607 PS FILE NAME: 062609 ORTHING: 264686 IDAL STAGE: E66  Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	4: 200 feet
ime: 1607 PS FILE NAME: 062609 ORTHING: 264686 IDAL STAGE: E66  Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	4: 200 feet
ime: 1607 PS FILE NAME: 062609 ORTHING: 264686 IDAL STAGE: E66  Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	4: 200 feet
ME: 1607 PS FILE NAME: 052609 ORTHING: 264566 DAL STAGE: E66  Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAL EASTING: \$15674	4: 200 feet

TURBIDITY INCREASE*:

* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

ROJECT: NBH - TO DB NUMBER: GG15.00	<u> </u>			
TE: 6/26/08				
ONITORS: Jenney	100 +			A New
EATHER CONDITIONS:		DWAL FA	يسطرحك	mid ~ 75°F
IND: no sind stip	ht bree			
			······································	
PE OF WATER QUALITY MON	W dire	12110		
1 - C. MANUAL MA	11011110.	WELL GOVE	4 m	aour wrent
			UP-CU	RRENT
AE: 1800				WHITE OF LOUIS OF PREPARE.
PS FILE NAME: 06260		**************************************	•	NUMBER OF HOURS OF DREDGING: 28
PRTHING: 2696590	V- 0'0 -		•	DISTANCE FROM DREDGE/SILT CURTAIN: 200 F+. EASTING: 015503
PAL STAGE:	* -		•	WATER DEPTH: 7.5
TO THE STATE OF TH			•	MASSICULTIN 11-3
				•
			AVE	•
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY	NOTES
			(autus)	
<u>6-1-80-80964</u>			0.0	
	1802	<u> </u>	0.0	
69608-08-1-6	1803	<u> </u>	-0.4	
	ļ			
				•
			1	· · · · · · · · · · · · · · · · · · ·
ERAGE TURBIDITY:	` .			
ERAGE TURBIDITY:	``.			
ÆRAGE TURBIDITY:			DOWN-C	URRENT
			DOWN-C	
ME: 1805	<b>62</b> 06	- RO 26	-	NUMBER OF HOURS OF DREDGING: 68
ME: <b>1805</b> PS FILE NAME: <b>OCHER</b>		3608- C	-	
ME: 1805 PS FILE NAME: OCTOR DRTHING: 2695842		3608- C	-	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015 579
ME: 1805 PS FILE NAME: OCTOR DRTHING: 269 6842		<b>3603-</b> €	-	NUMBER OF HOURS OF DREDGING: 08  DISTANCE FROM DREDGE/SILT CURTAIN: 200.' EASTING: 015579
ME: 1805 PS FILE NAME: OCHER PRTHING: 2695842 DAL STAGE: 866		96 OB- C	-	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015 579
ME: 1805 PS FILE NAME: OCHOR PRTHING: 269 642 DAL STAGE: 266			<b>%∼ ੧</b>	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015579 WATER DEPTH: 6'
ME: 1805 SFILE NAME: OCHER PRTHING: 2695842 DALSTAGE: 866		DEPTH (ft)	AVE TURBIDITY	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200! EASTING: 015579 WATER DEPTH: 6!
ME: 1905 S FILE NAME: OCTOR RTHING: 2695842 DAL STAGE: 866  Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015579 WATER DEPTH: 6'
ME: 1905 SFILE NAME: OCTOR STHING: 2695842 DAL STAGE: 866  Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015579 WATER DEPTH: 6'
Monitoring ID #	TIME 1905	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015579 WATER DEPTH: 6'
Monitoring ID #	TIME 1905	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015579 WATER DEPTH: 6'
Monitoring ID #	TIME 1905	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015579 WATER DEPTH: 6'
Monitoring ID #	TIME 1905	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015579 WATER DEPTH: 6'
Monitoring ID #	TIME 1905	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015579 WATER DEPTH: 6'
Monitoring ID #	TIME 1905	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015579 WATER DEPTH: 6'
Monitoring ID #	TIME 1905	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015579 WATER DEPTH: 6'
ME: 1805 PS FILE NAME: OCTOR PRIHING: 269 6842 DAL STAGE: 866  Monitoring ID #	TIME 1905	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015579 WATER DEPTH: 6'
ME: 1805 PS FILE NAME: OCTOR PRITHING: 269692 DAL STAGE: 266	TIME 1905	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015579 WATER DEPTH: 6'
Monitoring ID #	TIME 1905	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 08 DISTANCE FROM DREDGE/SILT CURTAIN: 200' EASTING: 015579 WATER DEPTH: 6'

TURBIDITY INCREASE*:

* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT: 6615,005	5.61	NBH TO	o of C	AD Phase III Dredg	e Water Quality Monitoring Form
JOB NUMBER: 665, 605	. 61				
DATE: 613068					. A
MONITORS: JIL, JER				*	_ / <b>A</b> \
WEATHER CONDITIONS: 72	o F	w.r.m.			
WIND: APPLY 0-5	ick.				A. W. W.
	v way	ested a	امام لاسم		<b>.</b>
DREDGE UPDATE:	· · · · · · · · · · · · · · · · · · ·		3	*	-
TYPE OF WATER QUALITY MON	ITORING: T	Seedon N	· nit.		<del>-</del>
	``````````````````````````````````````	W.W 150	- 13-10 CE		•
		,	UP-CU	RENT	
TIME: 07:00				NUMBER OF HOURS OF DREDGING:	•
GPS FILE NAME:				DISTANCE FROM DREDGE/SILT CURTAL	
NORTHING: 2016	249658			EASTING: \$4815347 81537	
	24 1636	<u>so</u>		WATER DEPTH: 7	
TIDAL STAGE: でい			•	WATER DEPTH:	***************************************
			AVE	•	;
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY (NTUs)		NOTES
063088-00 1 2	07:05	Z	-0.1		
663068.00-1-4	01:05	4	6.0		
063008-00-1-5	07:06	. 5	-0.1		
				:	
					,
AVERAGE TURBIDITY:			,		
, ,				,	
· · · · · · · · · · · · · · · · · · ·	ver mental experience				
,		•	DOWN-C	URRENT	
TIME: 07:10				NUMBER OF HOURS OF DREDGING:	D
GPS FILE NAME:			•	DISTANCE FROM DREDGE/SILT CURTA	IN: N/A
NORTHING: 26760	7 7		-	EASTING: 8/56/3	
TIDAL STAGE: 655	!		-	WATER DEPTH: 1.0	
TONE OTHER !					· · · · · · · · · · · · · · · · · · ·
nananga ana ara-ara-ara-ara-ara-ara-ara-ara-ara-ar	V-10-4-14-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-		•	,	
•••			AVE		
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY (NTUs)		NOTES
063008-00-9-2	07:12	2	0.2		
063008.00-9-85	07:12	5	0.3		
063008-00-91-8	67:12	_8	0.3		
			<del>                                     </del>	**************************************	· · · · · · · · · · · · · · · · · · ·
	<b>†</b>		<b>†</b>		
	<u> </u>	,			the state of the s
				<u> </u>	
	<del> </del>		<del>                                     </del>		· · · · · · · · · · · · · · · · · · ·
	<del> </del>		<del> </del>		
	<del></del>				·
	······································		<del> </del>		
	1		<u> </u>		·
				•	
\$				· · · · · · · · · · · · · · · · · · ·	
AVERAGE TURBIDITY:					

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

JOB NUMBER;				Dredge	Water Quality Monitoring Form
			///	,	
DATE: 6/30/08				f	٨
MONITORS:	,				
WEATHER CONDITIONS:	·				
WIND:					
PRIOR STORM EVENTS:					<i>§</i>
DREDGE UPDATE:				^	
TYPE OF WATER QUALITY MON	ITORING:				
			<u>UP-CU</u>	RRENT	**************************************
			<u> </u>	20.5 <u>m14.</u>	<b>&gt;^4</b>
TIME: 10:00				NUMBER OF HOURS OF DREDGING:	2
GPS FILE NAME:				DISTANCE FROM DREDGE/SILT CURTAIN	: N/A
NORTHING: 2696551			-	EASTING: 815310	<i>/ / /</i>
TIDAL STAGE:		_	_	WATER DEPTH: (p	
				•	
			AVE		•
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY (NTUs)		NOTES
		······································		1	
043008-02-1-Z	10:01		0.3		
063008 -02 - 1 - 3	10:01	3	0.3		
063008-02-1-4	10:01	<del> +</del>	1.3	<u> </u>	7, -2,746 7 1 shifts Western
				1	
***************************************			33,45		,
	<u>L</u>	Million A. Marallion A.	<u> </u>	1	······································
AVERAGE TURBIDITY:			w		
•	٠.				
<b>\</b>					•
		······································			
			DOMBI C	T FESTING THE	
TIME: 10 104			DOWN-C	URRENT	~
1 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11			DOWN-C	URRENT NUMBER OF HOURS OF DREDGING:	2.
GPS FILE NAME:	,,		<u>DOWN-C</u>		2 : A/A
GPS FILE NAME:			DOWN-C	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGESSLT CURTAIN	2 : NA
GPS FILE NAME: NORTHING: 2676111			DOWN-C	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	2 : NA
GPS FILE NAME:			DOWN.C	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGESSLT CURTAIN	2 : VA
GPS FILE NAME: NORTHING: 2676111 TIDAL STAGE: Ebb			DOWN-C	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	2 : NA
GPS FILE NAME: NORTHING: 2676111			- - -	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	2 : NA
GPS FILE NAME: NORTHING: 2676111 TIDAL STAGE: Ebb	TIME	рертн (п)	AVE TURBIDITY	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	2 : NA NOTES
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #	·		AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #	10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #  063008-02-9-2 663008-02-9-4	10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #	10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #  063008-02-9-2 663008-02-9-4	10:04 10:04 10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #  063008-02-9-2 663008-02-9-4	10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #  063008-02-9-2 663008-02-9-4	10:04 10:04 10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #  063008-02-9-2 663008-02-9-4	10:04 10:04 10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #  063008-02-9-2 663008-02-9-4	10:04 10:04 10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #  063008-02-9-2 663008-02-9-4	10:04 10:04 10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #  063008-02-9-2 663008-02-9-4	10:04 10:04 10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #  063008-02-9-2 663008-02-9-4	10:04 10:04 10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #  063008-02-9-2 663008-02-9-4	10:04 10:04 10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #  063008-02-9-2 663008-02-9-4	10:04 10:04 10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #  063008-02-9-2 663008-02-9-4	10:04 10:04 10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	
GPS FILE NAME:  NORTHING: 2676111  TIDAL STAGE: Ebb  Monitoring ID #  063008-02-9-2 663008-02-9-4	10:04 10:04 10:04	2	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: DISTANCE FROM DREDGE/SILT CURTAIN EASTING: \$15468	

2008 WQ Monitoring Form

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT: NBH TOP	DF CA	D 2 PK	Jase 11	Dredge Water Quality Monitoring Form
JOB NUMBER: LG15.0				<u></u>
DATE: 6/20/08				A A
MONITORS: 1/2, JER				
	Mnov.			
WIND: 5 Kts.				
			1/	
	in uth 79	5 Ft. Cut.		
TYPE OF WATER QUALITY MO!	NITORING:	Dudan	Marton	for Turbidity.
<b>4</b> .6	of don	In Day	UP-ÇU	RENT
TIME: 12:15				NUMBER OF HOURS OF DREDGING:
GPS FILE NAME:				DISTANCE FROM DREDGE/SILT CURTAIN: NA
NORTHING:				
TIDAL STAGE: Flood				WATER DEPTH: 9
				Sof dradag in Subf SAMSON + 26. North of Natick M
			AVE	meerings looft.
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY	NOTES
			(BUTM)	
063008 -4 1-2	12:15	42	<u> 6.7</u>	GPS Timbe down
063008-4-1-4	12:15	4	6.7	4 "
06300834-1-7	12:15	97	7.2	"
				,
		i		
	<u></u>	<u> </u>	<u> </u>	
AVERAGE TURBIDITY:				1
<b>\$</b> (	SPS dow	~ ¥	DOWN-C	URRENT
		·		4
TIME: 12:20		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<b>~</b>	NUMBER OF HOURS OF DREDGING:
GPS FILE NAME:			_	DISTANCE FROM DREDGE/SILT CURTAIN: N/A
NORTHING: / ** **			_	EASTING:
TIDAL STAGE:				WATER DEPTH: 4.5
**************************************			- (	ocation: 150 feet N. of 88 dredge. Dietly
· .			AVE	Not surry bridge.
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY (NTUs)	NOTES
06300834.7~2	12.20	1 2	ا ا.ن	(2PS Trimble down
063008 24-9-2.5	12:20	1.5	2.3	, ,
063008-41-9-3	12:10	3	2.4	
1 - 2 2008 - 1 - 1 - 3	1	+	<del>  ••</del> -	
	<del></del>	<u> </u>		
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	1		<u> </u>	
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			1	
		1	1	
AVERAGE TURBIDITY:				

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT: Neبي آ	Sedford	History	Phose III	dredging Topy CAD Dredge Water Quality Monitori	MAI ALTI
COIS.	305.00/	**		3	
ATE: 6/30/08					
MONITORS: 5 K, 3	ER GO	CD			Dr. 40s. 50t
	South we		Kinote	Clear 80's	
VIND:					
PRIOR STORM EVENTS:	***************************************		***************************************	Million	
PREDGE UPDATE:				**************************************	
YPE OF WATER QUALITY MOI	NITORING:				
	<del>agaige - go -g) ne d d d d d Plant fin d na baannaan</del>		UP-CUI	RRENT	**************************************
IME: 10:5 14:	7			NUMBER OF HOURS OF DREDGING:	
IME: SPS FILE NAME: A ) A	<u> </u>	***			······································
		<del></del>		DISTANCE FROM DREDGE/SILT CURTAIN: /@	
IORTHING: GPS No	r working			EASTING: Sample taken Directly south of Die	tge_
IDAĹ STAGE:		M477777444M7		WATER DEPTH: /O/	·····
····				,	, u.
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NOTES	•
56-008-06-1-7	1425	2	2.7	**************************************	
36503-06-1-5	14:25		2.8		
363008-06-1-8	14:25	Š	3.1		***************************************
363003-UB- (= B	17.67				
	-	·			
	1			ŧ	
AVERAGE TURBIDITY:		<u></u>			
AVERAGE TURBIDITY:			NA. (1)	A DESCRAPE	
AVERAGE TURBIDITY:			DOWN-C		
	· .		DOWN-C	GCD,	2 hus
ПМЕ: 2:20 თ 14:2	٠. د		DOWN-C	NUMBER OF HOURS OF DREDGING:	Shus
FIME: 2.20 07 /4.2			DOWN-C	NUMBER OF HOURS OF DREDGING: 175 (DISTANCE FROM DREDGE/SILT CURTAIN: 175')	<u>+</u>
TIME: 2.20 or 14.2 GPS FILE NAME: NA NORTHING: 68	C> S No+ Wo	r k i vy	DOWN-C	NUMBER OF HOURS OF DREDGING: 175 CONTROL OF DISTANCE FROM DREDGE/SILT CURTAIN: 175' EASTING: Sample + Aken Al W of Dredge S	<u> </u>
FIME: 2.20 or 14.2 GPS FILE NAME: NA NORTHING: 68		r.kiyy	DOWN-C	NUMBER OF HOURS OF DREDGING: 175 (DISTANCE FROM DREDGE/SILT CURTAIN: 175')	<u>+</u>
TIME: 2.20 07 /4.2 SPS FILE NAME: NA		. Kiy	DOWN-C	NUMBER OF HOURS OF DREDGING: 175 CONTROL OF DISTANCE FROM DREDGE/SILT CURTAIN: 175' EASTING: Sample + Aken Al W of Dredge S	<u>+</u>
FIME: 2.20 07 /4.2 SPS FILE NAME: NA NORTHING: - 68 FIDAL STAGE:		DEPTH (ft)	DOWN-C	NUMBER OF HOURS OF DREDGING: 175 CONTROL OF DISTANCE FROM DREDGE/SILT CURTAIN: 175' EASTING: Sample + Aken Al W of Dredge S	5 5 4 2
FIME: 2.20 or 14.2.  GPS FILE NAME: NA NORTHING: -*69.  FIDAL STAGE:  Monitoring ID #	S No+ Wo	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 475 (CD) DISTANCE FROM DREDGE/SILT CURTAIN: /75' EASTING: Septiple + Aken Al W & Dredge S WATER DEPTH: 7	5 5 4 2
FIME: 2.20 or 14.2.  GPS FILE NAME: NA NORTHING: -* (-) 9.  FIDAL STAGE:  Monitoring ID #	S No+ Wor	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING: 475 (CD) DISTANCE FROM DREDGE/SILT CURTAIN: /75' EASTING: Septiple + Aken Al W & Dredge S WATER DEPTH: 7	5 5 4 -
TIME: 2.20 or 14.2.  PPS FILE NAME: NA  NORTHING: - 6.8.  TIDAL STAGE:  Monitoring ID #	TIME 7420	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING:  DISTANCE FROM DREDGE/SILT CURTAIN: /75'  EASTING: Sample Jaken Al W & Dredge S  WATER DEPTH: 7	<u>+</u>
ME: 2.20 or 14.2  PS FILE NAME: N A  HORTHING: - 68  IDAL STAGE:  Monitoring ID #  O63008-06-9-2  O63008-06-9-4	TIME  1420  14:20  14:20	DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING:  DISTANCE FROM DREDGE/SILT CURTAIN: /75'  EASTING: Sapiple Faken Al W of Dredge S  WATER DEPTH: 17  NOTE:	<u>+</u>
IME: 2.20 or 14.2  PS FILE NAME: N A  IORTHING: - 68  IDAL STAGE:  Monitoring ID #  O63008.06.9  063008.06.9  063008.06.9	TIME 7420	DEPTH (ft)	AVE TURBIDITY (NTUs)	NUMBER OF HOURS OF DREDGING:  DISTANCE FROM DREDGE/SILT CURTAIN: /75'  EASTING: Sapiple Faken Al W of Dredge S  WATER DEPTH: 17  NOTE:	<u>+</u>
IME: 2.20 07 14.2  PS FILE NAME: NA  IORTHING: "-69  IDAL STAGE:  Monitoring ID #  1043004 06.9-  1043005 06.9-  1043005 06.9-  1043005 06.9-	TIME  1420  14:20  14:20	DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING:  DISTANCE FROM DREDGE/SILT CURTAIN: /75'  EASTING: Sapiple Faken Al W of Dredge S  WATER DEPTH: 17  NOTE:	<u>+</u>
IME: 2.20 or 14.2  PS FILE NAME: N A  IORTHING: - 68  IDAL STAGE:  Monitoring ID #  O63008.06.9  063008.06.9  063008.06.9	TIME  1420  14:20  14:20	DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING:  DISTANCE FROM DREDGE/SILT CURTAIN: /75'  EASTING: Sapiple Faken Al W of Dredge S  WATER DEPTH: 17  NOTE:	±
ME: 2.20 or 14.2  PS FILE NAME: N A  HORTHING: - 68  IDAL STAGE:  Monitoring ID #  O63008-06-9-2  O63008-06-9-4	TIME  1420  14:20  14:20	DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING:  DISTANCE FROM DREDGE/SILT CURTAIN: /75'  EASTING: Sapiple Faken Al W of Dredge S  WATER DEPTH: 17  NOTE:	±
FIME: 2.20 03 14.2  SPS FILE NAME: N A  NORTHING: -69  FIDAL STAGE:  Monitoring ID #	TIME  1420  14:20  14:20	DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING:  DISTANCE FROM DREDGE/SILT CURTAIN: /75'  EASTING: Sapiple Faken Al W of Dredge S  WATER DEPTH: 17  NOTE:	<u>+</u>
Me: 2.20 or 14.2  PS FILE NAME: N A  HORTHING: - 68  HOAL STAGE:  Monitoring ID #  O63008-66-9- 063008-06-9-2 063008-06-9-4	TIME  1420  14:20  14:20	DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING:  DISTANCE FROM DREDGE/SILT CURTAIN: /75'  EASTING: Sapiple Faken Al W of Dredge S  WATER DEPTH: 17  NOTE:	±
FIME: 2.20 or 14.2.  GPS FILE NAME: NA NORTHING:	TIME  1420  14:20  14:20	DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING:  DISTANCE FROM DREDGE/SILT CURTAIN: /75'  EASTING: Sapiple Faken Al W of Dredge S  WATER DEPTH: 17  NOTE:	\$ 144 S
FIME: 2.20 03 14.2  SPS FILE NAME: N A  NORTHING: -69  FIDAL STAGE:  Monitoring ID #	TIME  1420  14:20  14:20	DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING:  DISTANCE FROM DREDGE/SILT CURTAIN: /75'  EASTING: Sapiple Faken Al W of Dredge S  WATER DEPTH: 17  NOTE:	<u>+</u>
FIME: 2.20 07 14.2  SPS FILE NAME: N A  NORTHING: -69  FIDAL STAGE:  Monitoring ID #  O63006-66-9- O63006-06-9-2 O63008-06-9-4	TIME  1420  14:20  14:20	DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING:  DISTANCE FROM DREDGE/SILT CURTAIN: /75'  EASTING: Sapiple Faken Al W of Dredge S  WATER DEPTH: 17  NOTE:	±
ME: 2.20 or 14.2  PS FILE NAME: N A  HORTHING: - 68  IDAL STAGE:  Monitoring ID #  O63008-06-9-2  O63008-06-9-4	TIME  1420  14:20  14:20	DEPTH (ft)	AVE TURBIDITY (NTUS)	NUMBER OF HOURS OF DREDGING:  DISTANCE FROM DREDGE/SILT CURTAIN: /75'  EASTING: Sapiple Faken Al W of Dredge S  WATER DEPTH: 17  NOTE:	<u>+</u>

TURBIDITY INCREASE*:

* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT: TOO A CO	d	•					Dredge Wat	er Quality Monitoring Form
	10.20						**************************************	
DATE: 6/30/08						r		٨
MONITORS: Yay + JELIAC								A
	CCC COST	+ mugg	y, the	<u>nhat</u>	4-340	مام		
MIND: 10 W614				······································			/	Ser series
	<u>un lout</u>	<u>night</u>	*** <u>***</u>		***************************************		·····	
DREDGE UPDATE:	Marco Pillo.	*	<del></del>				******	
TYPE OF WATER QUALITY MC	INTORING:							
	A GP	S Lown &	VP-CU	RRENT		<del></del>		rindustinidus un understähtenitarinna sieste sind attitut fra angesta annen allen attitut ette sieste sieste s
тіме: 16 10	• •	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>		E NULIDA	OF DREDGING	<b>4.</b>	፟
······································	<del></del>		•			EDGE/SILT CL		0
GPS FILE NAME: \( \sqrt{j} \)  NORTHING: \( \sqrt{j} \)	<u> </u>		•	EASTING:	CACOM DAY	, NA	MATERIA.	~/A
TIDAL STAGE: Flood			,	WATER DE	PTH:	10 10	·····	
1 1000	THE RESERVE THE PROPERTY OF TH	······································	•				· ·	A L Jak
				Sevi	16 64	Dirdy	, NIMI	I of Netick M
Monitoring ID#	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)					NOTES
063008_08_1-2	16:10	3	<b>42.3</b>	71		·····	·····	***************************************
	16 10	5	US	12			<del></del>	
013008-08-1-5 043008-08-1-8	11. 10	=======================================	4.3	<del> </del>		······································	· · · · · · · · · · · · · · · · · · ·	
OC 2008 - 1 - 1	10	0	3.3			~		
	····	***************************************			·····		T-1-1-1	**************************************
**************************************	****					**************************************		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
							***	engangen verster en
AVERAGE TURBIDITY:		744-1-14-14-14-14-14-14-14-14-14-14-14-14	····					
•	•							
	a C	Ps down	体 DOWN-C	URRENT		···		erinen marinen erinen erin
TIME: 14:05	<b>9</b>				F HOURS	OF DREDGIN	s: \$	<b>*</b>
GPS FILE NAME:			•			EDGE/SILT CI		<u> </u>
NORTHING:		***************************************	-	EASTING:			*************	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
TIDAL STAGE: Floor				WATER DE	PTH	8		
	**************************************		•	Maf	SIUSON	m . 340	F.f.	nerlanded scow
· · ·			AVE	استان	male i = A	400 walk.	· — •	₩ ₩.₩
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY (NTUs)	-7	1,000	110700		NOTES
663094+8-9-2	1600	2	-0.2				······································	
0.300K-18 914	1602	4	0.5					
063001.0x-9-6	1605	6	0.4	ļ				·
						·····	······································	***************************************
			<b>ļ</b>	-				······································
			<u> </u>	-				· · · · · · · · · · · · · · · · · · ·
**************************************		<b></b>		<u> </u>		<del> </del>	<del></del>	
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		<u> </u>	<b></b>			***		

AVERAGE TURBIDITY:

2008 WQ Monitoring Form

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

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· ·				Credes Dimond Malor Photh, the their a Form						
PROJECT: NBH PLase	717 7	San San		Dredge Disposal Water Quality Monitoring Form						
JOB NUMBER: GG/5,00		reaging								
DATE: 7/3/08			**************************************							
DISPOSAL EVENT:	***********			<del></del>						
	ear Bree	EV 705								
WIND: 5500 ±	CAY COTE									
	ONY		······································							
	· · · · · · · · · · · · · · · · · · ·									
. •			UP-CI	JRRENT						
TIME: 6",46				TIME OF DISPOSAL: 6'42						
GPS FILE NAME: WA	<u> </u>			DISTANCE FROM DISPOSAL LOCATION: Zoo f+						
NORTHING: 24954		<del></del>	•	EASTING: 214901						
TIDAL STAGE: Flooding			•	WATER DEPTH: 40						
, , ,	)		•							
		······································	•							
			AVG	·						
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY	NOTES						
	0645	<b>@</b> 2	(NTUs)							
070308-00-1-2	06.46	20	0.3							
<u>ा । ५००-००-१ - ३</u> ५	0647	38_								
2 (4306°00°(- 5p	3041	30_	2.2							
MMMAAAA TII TII MAAAA MAAA	1		**************************************							
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**************************************			**************************************							

	<u> </u>	<u> </u>	2.53	= 0.53 270						
AVERAGE TURBIDITY: 0.4	של פל	<u> </u>								
	,,,,,									
	•		DISPOSAL	LOCATION						
TIME: 0650				TIME OF DISPOSAL: DGY 2						
GPS FILE NAME: 070369			•	DISTANCE FROM DISPOSAL LOCATION: @ Location						
NORTHING:	269613	0	-	EASTING: GUUGUCA 814856						
TIDAL STAGE: Flood	anna Maria Mari		•	WATER DEPTH: 41 Ccet						
	~									
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY	NOTES						
monitoring is a	1 91116m	DET THE (III)	(NTUs)	ROTES						
5-00-16-80E0LO 000	0650	2.0	15.0							
070308-41-00-20	0651	200	0.6	•						
0703cB-d1-00-38	0653	38.0	4.7							
	1									
	1									

20.5/3 = 4.7

AVERAGE TURBIDITY: 6.7 NTV

TURBIDITY IN CREASE Pritoring Form

* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity



			DOWN-C	URRENT
TIME: 0655				TIME OF DISPOSAL: 0642
GPS FILE NAME: 0 103	~ \		•	DISTANCE FROM DISPOSAL LOCATION: 2001
NORTHING: 269636	1	~ WOW AND WALLEY	•	EASTING: 814907
TIDAL STAGE: Flood	<u></u>		•	WATER DEPTH: 12.1
	·^	***************************************	•	
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	NOTES
070308-00-9-2	0655	2.0	1.4	
070300-00-9-6	0656	6.0	0.7	
070308-00-9-10	0651	10.0	0.8	
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4				
Marie	A			
THE ATTHERNO MEAN DESCRIPTION OF THE PROPERTY			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	<u> </u>			
Accesses 100 100 100 100 100 100 100 100 100 10				
h.				
1.				
4.				
A COLUMN TO THE RESIDENCE OF THE SECOND TO T			PR-APS-FARA-MARTHUR MARKET	
		1		
			2.97	5 = 0.9G
	<u> </u>	<u> </u>		
AVERAGE TURBIDITY: O	.96			

* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

		~~~ TT		Dredge Water Quality Monitoring Form				
PROJECT: NBH - D	<u>cage</u>	_HU _		Cross train Addity mountains t our				
JOB NUMBER: 6615.00	2.01			A.				
DATE: 7 3 05	- 1 · ·		<u>a</u>					
WEATHER CONDITIONS: 34	MONITORS: Jen martino + warren B.  MEATHER CONDITIONS: Sunny, warm - 750F							
WIND: Shight breez								
PRIOR STORM EVENTS: RAL			· · · · · · · · · · · · · · · · · · ·	W				
DREDGE UPDATE:								
TYPE OF WATER QUALITY MON	IITORING:	<i>subidit</i>	4-001	down current + disposal				
	,		UP-CU	RRENT				
TIME: 0840				NUMBER OF HOURS OF DREDGING: 02				
GPS FILE NAME: わ7030	8-02-	- 1.	•	DISTANCE FROM DREDGE/SILT CURTAIN: 2001				
NORTHING: 2696088				EASTING: 813597				
TIDAL STAGE: FLOOD				WATER DEPTH: (1 /				
			- 1 111					
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY	NOTES				
Minimornia in it.	11341-	DE COLOR	(NTUs)	( ) Set 1 (64 Set				
070308-02-1-2	0840	2.0	3.2					
070308-02-1-6	0842	6.0	2.9					
074308-02-1-10		10.0	37.0					
,								
	<u> </u>		<u></u>					
AVERAGE TURBIDITY:		····	**************************************					
r		, , , , , , , , , , , , , , , , , , ,						
			DOWN-C	URRENT				
TIME: 0845				NUMBER OF HOURS OF DREDGING: 02				
GPS FILE NAME: 07030	8-02-	9	•	DISTANCE FROM DREDGE/SILT CURTAIN: 200'				
NORTHING: 2696618			-	EASTING: 815759				
TIDAL STAGE: Place			•	WATER DEPTH: 10'				
			•					
			•					
	****	an order min or color	AVE	110 Wm A				
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY (NTUs)	NOTES				
070308-02-9-2	0845	2.0	6.4	T				
070308-02-9-5	0846	5.0	5.0					
072308-02-9-8	0847	8.0	5-8					
	- 11	<u> </u>						
	· · · · · · · · · · · · · · · · · · ·		t					

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity 2008 WQ Monitoring Form

	1			Dredge Water Qualify Monitoring Form
PROJECT: NBH - DA	<u>eage</u> :	HPU.	**************************************	
JOB NUMBER: 6615.00 DATE: 07 103 108	10.2		<u></u>	A
MONITORS: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		um. 7	5°F ~	And Andex
	<u> </u>		3 F ~	DO-F
WIND: COOL BOARD	*	-11-7-2011/10-1		
PRIOR STORM EVENTS: 2 4	MOH WE	<u> </u>		······································
DREDGE UPDATE: ADD AND TYPE OF WATER QUALITY MON	IITOPING.	2 . T a ! _1 \ _1	16	up + down current
TYPE OF WATER WUNLITT MON	HIUNING.	ILW PIOLIT	<del>\ \ \ \ \</del>	up + aloun current
		, , , , , , , , , , , , , , , , , , ,	UP-CUI	DEST
			<u>DL-77V</u>	
TIME: JOYO		***************************************		NUMBER OF HOURS OF DREDGING: DH
GPS FILE NAME: 07 0302	<u>-04-1</u>	A		DISTANCE FROM DREDGE/SILT CURTAIN: 200
NORTHING: 2696638	***************************************			EASTING: BIST7 D
TIDAL STAGE: 266				WATER DEPTH: 8.5 /
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NOTES
070308-04-1-2	1040	2.0	0.0	
070308-04-1-4	1041	4.0	0.0	
670308-04-1-6	In 43	6.0	-0.1	
		<u> </u>		
AVERAGE TURBIDITY: O -	ATIA	_		
<u> </u>		W		
			DOWN-C	I CHOCKY
ì			DOMN-7	UNKGRI
TIME: 1045				NUMBER OF HOURS OF DREDGING: 4
GPS FILE NAME: 070309	-14-9		•	DISTANCE FROM DREDGE/SILT CURTAIN: 200/
NORTHING: 3696128		**************************************	•	EASTING: 815446
TIDAL STAGE: ELL	***************************************		•	WATER DEPTH: 10'
	The state of the s		-	
			-	
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NOTES
070308-04-9-2	1045	2.0	5.1	
070308-04-9-5		5.0	4.2	
070308-04-9-6	IDYB	8.0	4.2	
Andamanan, ang saya a a a a a a a a a a a a a a a a a				
		A		
**************************************				
<u> </u>	<u></u>			

TURBIDITY INCREASE: 45-0 = Y.S NTL

AVERAGE TURBIDITY: 4.5 NTU

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT: NBH - DO	dge CA	OI Top	of LAO	Consignation of the control of the c
JOB NUMBER: 6615. O	<u> </u>	<u> </u>		
DATE: 7 3 000		1		
DISPOSAL EVENT: D2 - M		<u> </u>		
MONITORS: JM 1 WB				
WEATHER CONDITIONS:	73 my WI	nasi w	m, 3	mny Bose
WIND: GUSTY , st	4-19-19-19-19-19-19-19-19-19-19-19-19-19-		· · · · · · · · · · · · · · · · · · ·	
PRIOR STORM EVENTS: 🗼	<u>la :</u>		······································	
			UP-C	URRENT
100			***************************************	
TIME: 1220				TIME OF DISPOSAL: 12.20
GPS FILE NAME: 07030	5-02-	06-1		DISTANCE FROM DISPOSAL LOCATION: 200'
NORTHING: 2696303	<u> </u>	W1407-00-00-00-00-00-00-00-00-00-00-00-00-0		EASTING: B14738
TIDAL STAGE: 200		***************************************		WATER DEPTH: 181
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	NOTES
070308-26-1-2	127.0	2.0	1.5	
070308-06-1-8		8.0	1.8	expressely high winds
070308-06-1-16		16.0	2.0	
			,,	
			**************************************	
and the second s	-	•		M. S. M. C. L. C. M. C. M. M. C. M.
**************************************				
	·			
-				
AVERAGE TURBIDITY:				
			DISPOSA	LLOCATION (Mod Cat)
1330				- 1
TIME: 1230				TIME OF DISPOSAL: 1220
GPS FILE NAME: 07030	<u>8-d2-</u>	06 u	-	DISTANCE FROM DISPOSAL LOCATION: ( ) ( ocation
NORTHING: 2696210				EASTING: 814762
TIDAL STAGE: 266				WATER DEPTH: 40
	<u></u>	<del></del>		` <u>`</u>
			AVG	
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY	NOTES
070308-02-06-	1 102.	2.0	(NTUs)	
070308-02-06-1		18.0	40.5	antania linini delegge
070308-02-06-3		36.0	5.4	) extremely highwinds   current
010300-02-06-3	0127-	30.0		TO A STATE OF THE
We share on the cost thinkes when he will be				
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Adversarial and the second sec				
<del>чичке, уклусков поливорнов постоя п</del>		***************************************		
			<u> </u>	
***************************************			<u> </u>	
Amazonmazonmazonti elde ghiçeki ide kişişişik ide kiride				

TURBIDITY INCIREASE CONTOURS Form

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity



			DOWN-CURRENT				
THE 10 M.							
TIME: 1246  GPS FILE NAME: 070308-06-9+  NORTHING: 2695838  TIDAL STAGE: E66			•	TIME OF DISPOSAL: 12 20 DISTANCE FROM DISPOSAL LOCATION: 2001			
MODILING: 0 703	072-06		•	EASTING: Q14716			
TIDAL STAGE: 61 L	<del>2</del>			WATER DEPTH: 35'			
HUMESTAGE. 766			•	WATER DEPTH. 26.			
	****		•				
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY	NOTES			
070209-06-9-5	12.4 =	2.0	(NTUs)				
070308-06-9-0	1241	17.0	3.1	) extremely windy			
070308-06-9-32	1242	33.0	See.	6.1			
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			T 7:12				
		,					
·				100 100 100 100 100 100 100 100 100 100			
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AVERAGE TURBIDITY:		**************************************					

* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT: NBH - TO JOB NUMBER: 6615.00 DATE: 7/3/08 MONITORS: JM + W.C. WEATHER CONDITIONS: G- WIND: G-DSTY! UE PRIOR STORM EVENTS: NO DREDGE UPDATE: D 6 TYPE OF WATER QUALITY M	by sty wing the control of the contr	nds!s	mod cal	Werm ~ 80+E Apex
			<u>UP-CUI</u>	RRENT
TIME: 1996 13	売 力		•	NUMBER OF HOURS OF DREDGING: 94 07
GPS FILE NAME: 0703		1	P4+	DISTANCE FROM DREDGE/SILT CURTAIN: 200'
NORTHING: るしゃし			н	EASTING: 9/57/6
TIDAL STAGE: 206	<u> </u>		*	WATER DEPTH: (0 *
Monitoring ID #	TIME 1330	DEPTH (ft)	AVE TURBIDITY (NTUs)	NOTES
070308-06-1-	2 Herry	2.6	4.3	
070308-06-1-		_ میک	5.2	
070308-06-1-	1333	8.0	4.3	

<u> </u>			<u></u>	
AVERAGE TURBIDITY:			·	
,			DOWN-C	URRENT
TIME: 1335				NUMBER OF HOURS OF DREDGING: 07
GPS FILE NAME: 0763	18-07-9		*	DISTANCE FROM DREDGE/SILT CURTAIN: 204
NORTHING: 24541		h	•	EASTING: 8/5381
TIDAL STAGE: 265			-	WATER DEPTH: 9"
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY (NTUs)	NOTES
070308-07-9-2	1335	2.0	4.6	
070508-07-9-	1336	4.0	5./	
670309-07-7-	1537	6.0	5.1	

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity 2008 WQ Monitoring Form

PROJECT: NBH -	Dredge	TOPOF	CADa	Dredge Water Quality Monitoring Form			
10B NOMBEK: 6612-50	<u>ร.ย "</u>						
DATE:07/03/08				^			
MONITORS: JM + W							
NEATHER CONDITIONS: Surry / windy 802F							
WIND: Windy							
PRIOR STORM EVENTS:	A			*			
DREDGE UPDATE: 09 h	ofd	edae /	Wane 8	mall bucket-filling modert)			
TYPE OF WATER QUALITY MON	IITORING: 🕂	whati	2 100				
			<u>UP-CUI</u>	RRENT			
TIME: 02050 154	10			NUMBER OF HOURS OF DREDGING: 🚜 09			
GPS FILE NAME: 070309	-09-1	······································	•	DISTANCE FROM DREDGE/SILT CURTAIN: 200'			
NORTHING:			•	EASTING:			
TIDAL STAGE: FLOOD	***************************************		•	WATER DEPTH: /O'			
			•				
			AVE				
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY	NOTES			
		Г	(NTUs)				
070308-09-1-2	1545	a	1.9	<u> </u>			
070308-09-1-5	1546	5	<u> </u>				
070308-09-1-8	1547		9.0				
AVERAGE TURBIDITY:							
AVERAGE TORBIDITY							
•							
							
			DOWN-C	URRENT			
TIME: 155	5			NUMBER OF HOURS OF DREDGING: 09			
GPS FILE NAME: 07030		9	•	DISTANCE FROM DREDGE/SILT CURTAIN: 200'			
NORTHING:			•	EASTING:			
TIDAL STAGE: FLOOD			•	WATER DEPTH: / D '			
			•				
	****		•				
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY	NOTES			
			(NTUs)				
070308-09-9-2	ช ร รร		& 5				
070308-09-9-5	485h	<i>5</i> -	7.5				
070308-09-9-8	0557	8	8.4				
	<u></u>						
]					
	1	1	1				

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity 2008 WQ Monitoring Form

Monitoring ID # TIME DEPTH (ft) TURBIDITY (NTUS)

OF 0101. 0737 - 2 0737 0735 2 2 2 4 6744 4 271 45 0 12 4 0 70 808 .0737 .25 4 6744 4 271 45 0 12 4 5 6 7 4

TURBIDITY INCREASE Opitoring Form

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity



			DOWN-C	URRENT	
TIME: 07125	:			TIME OF DISPOSAL: (T): (T)	
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^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

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^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

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Monitoring ID # TIME DEPTH (it) TURBIDITY (NTUS) 0711 08-00-9-2 0753 2.0 3.9 0711 08-00-9-5 0754 5.0 3.9 0711 08-00-9-7 0755 7.0 6.8		3-00		•	The state of the s
Monitoring ID # TIME DEPTH (ft) TURBIDITY (NTUS) 0711 20-00-9-2 0753 2.0 3.5 0714 00-00-9-5 0754 5.0 3.9 0711 20-00-9-7 0755 7.0 6.9		<u> </u>		_	
Monitoring ID # TIME DEPTH (ft) TURE (NTUS) 0711 08-00-9-2 0753 2.0 3.5 0710 08-00-9-5 0754 5.0 3.9 0711 08-00-9-7 0755 7.0 6.8	TIDAL STAGE: 2 66	· · · · · · · · · · · · · · · · · · ·		••	WATER DEPTH: Q
Monitoring ID # TIME DEPTH (ft) TURE (NTUS) 0711 08-00-9-2 0753 2.0 3.5 0710 08-00-9-5 0754 5.0 3.9 0711 08-00-9-7 0755 7.0 6.8				-	, ,
Monitoring ID # TIME DEPTH (ft) TURBIDITY (NTUS) 0711 68-00-9-2 0753 2.0 3.5 0710 8-00-9-5 0754 5.0 3.9 0711 68-00-9-7 0755 7.0 6.8					•
(NTUS) 0711 08-00-9-2	Namiforium 153 #	TIME	DEBTH (#\		NOTEC
07408-00-9-5 0754 5.0 3.9 07408-00-9-5 0755 7.0 6.8	Wolltonig is #	1 114102	DEFIN (II)		i i i i i i i i i i i i i i i i i i i
07408-00-9-5 0754 5.0 3.9 07408-00-9-5 0755 7.0 6.8	6711/00-00-9-2	0753	2.0	3.5	1
0711108-00-9-7 0755 7.0 6.8	07400-00-6-5		······································	29	
	071116 - 00 - 0 - 3				
	21100	- u - u - u			
AVERAGE TURBIDITY:		***************************************	·····		
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TURBIDITY INCREASE*:

* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT: NBH - T	ha of c	AD2	Drode	Dredge Water Quality Monitoring Form
IOB NUMBER: 6615.50	5.01		VILX	
DATE: 1 11 08	<u> </u>			· Å
MONITORS: JM + GCD	······································			A
WEATHER CONDITIONS: 50%	my + W	sarm q	55*=	Woex
NIND: Stiant breeze	,		*	
PRIOR STORM EVENTS:	A	***		**************************************
DREDGE UPDATE: 62 100	r of di	redge		
			curren	t tubiditumanitoring
	, , , , , , , , , , , , , , , , , , , ,	•	UP-CU	RRENT
TIME: 1015 hrs				NUMBER OF HOURS OF DREDGING: 02. hr
SPS FILE NAME: OT LE 09-	07-1			DISTANCE FROM DREDGE/SILT CURTAIN: 200
NORTHING:	<u> </u>		•••	EASTING:
IDAL STAGE: FLOOR	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-	
IDAL STAGE: PERIOCI			•	WATER DEPTH: 9.6
			AVE	•
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY	NOTES
	I		(NTUs)	
071108-02-1-2	1012	2.0	0.0)
071108-02-1-4	1016	4.0	0.2	
07[[08-04-[-	1017	7.0	0.7	

			0.9	3= 6.3
AVERAGE TURBIDITY: 6.7	UTU		**************************************	
·	4 var v 44 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			
•			DOWN-C	CURRENT
TIME: LOTO LICS				NUMBER OF HOURS OF DREDGING: 02 W
GPS FILE NAME: 67 108			-	DISTANCE FROM DREDGE/SILT CURTAIN: 200 *
NORTHING:	*		-	EASTING:
			-	WATER DEPTH: 10
TIDAL STAGE: Flood	····		946.	WASER UEPIN, LO.
	y		***.	÷.
***			AVE	• ,
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY (NTLs)	NOTES
071108-02-9-2	OLO	2.0	4.0	
0711 68-02-4-	1019	5.0	21.5	
071108-02-4-	1020	8.0	27.7	
***************************************	'			
			, , , , , , , , , , , , , , , , , , ,	
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manufation in the second secon				
при	,		***************************************	

TURBIDITY INCREASE*: 11.75- 0.36 17.48 NO

AVERAGE TURBIDITY: 11-13

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

ROJECT: NBH - T OB NUMBER: 6615.00		The second second		Dredge Water Quality Monitoring For
A Milder and a Late Late Late Late Late Late Late La	2.0)		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
ONITORS: TM+ GCD	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>	***************************************	&
EATHER CONDITIONS:		Л! 85°	£	//\nox
ND: Hardly any			eze.	
RIOR STORM EVENTS:	I A	is Ell Des		
ATTENDED TO A STATE OF THE STAT	- cleans	so dred		*
PE OF WATER QUALITY MC				wn-current turbidity
		Ţ		
		,	UP-CUR	DENT
			<u>01 - 011</u>	
WE: 1240 hrs				NUMBER OF HOURS OF DREDGING: 04 hrs
	<u> 8 - 04 -</u>			DISTANCE FROM DREDGE/SILT CURTAIN: 200'
PRTHING:		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	•	EASTING:
DAL STAGE: Flood			. •	WATER DEPTH: 29'
			•	
4				:
Monitoring ID ≢	TIME	DEPTH (ft)	AVE TURBIDITY	NOTES
			(NTUs)	110 (20
71108-04-1-2	1240	2.0	0.4	
71108-04-1-	1241	14.0	0.6	
7408 -04-1-	1242	27.0	9.7	
			-	
	i	<u> </u>		
VERAGE TURBIDITY:		***************************************	······································	
•	· .			
V.				,
		······································	*************	**************************************
•			DOWN-CI	URRENT
ME: 1230 hrs				
PS FILE NAME: 67110				NUMBER OF HOURS OF DREDGING: OH Lars
	8-04-	9	•	
	8-04-	9	• •	DISTANCE FROM DREDGE/SILT CURTAIN: ZOO' EASTING:
ORTHING:	8-04-	9		DISTANCE FROM DREDGE/SILT CURTAIN: Zoo'.
ORTHING:	8-04-		- - -	DISTANCE FROM DREDGE/SILT CURTAIN: Zeo' EASTING:
ORTHING:	8-04-	9		DISTANCE FROM DREDGE/SILT CURTAIN: Zeo' EASTING:
ORTHING: - IDAL STAGE: Fload			AVE	DISTANCE FROM DREDGE/SILT CURTAIN: Zoo'. EASTING: WATER DEPTH: (O'
ORTHING:	71ME	DEPTH (ft)	TURBIDITY	DISTANCE FROM DREDGE/SILT CURTAIN: Zeo' EASTING:
ORTHING: IDAL STAGE: Fload Monitoring ID#	TIME	DEPTH (ft)	TURBIDITY (NTUs)	DISTANCE FROM DREDGE/SILT CURTAIN: Zoo' EASTING: WATER DEPTH: (O' NOTES
Monitoring ID #	TIME 2: (2:18	DEPTH (ft)	TURBIDITY (NTUS)	DISTANCE FROM DREDGE/SILT CURTAIN: Zoo' EASTING: WATER DEPTH: (O' NOTES
Monitoring ID #	TIME 2: /2:(8	DEPTH (ft)	(NTUs)	DISTANCE FROM DREDGE/SILT CURTAIN: Zoo' EASTING: WATER DEPTH: (O' NOTES
Monitoring ID #	TIME 2: /2:(8	DEPTH (ft)	TURBIDITY (NTUS)	DISTANCE FROM DREDGE/SILT CURTAIN: Zoo' EASTING: WATER DEPTH: (O' NOTES
Monitoring ID #	TIME 2: /2:(8	DEPTH (ft)	(NTUs)	DISTANCE FROM DREDGE/SILT CURTAIN: Zoo' EASTING: WATER DEPTH: (O' NOTES
Monitoring ID #	TIME 2: /2:(8	DEPTH (ft)	(NTUs)	DISTANCE FROM DREDGE/SILT CURTAIN: Zoo' EASTING: WATER DEPTH: (O' NOTES
Monitoring ID #	TIME 2: /2:(8	DEPTH (ft)	(NTUs)	DISTANCE FROM DREDGE/SILT CURTAIN: Zoo' EASTING: WATER DEPTH: (O' NOTES
Monitoring ID #	TIME 2: /2:(8	DEPTH (ft)	(NTUs)	DISTANCE FROM DREDGE/SILT CURTAIN: Zoo' EASTING: WATER DEPTH: (O' NOTES
Monitoring ID #	TIME 2: /2:(8	DEPTH (ft)	(NTUs)	DISTANCE FROM DREDGE/SILT CURTAIN: Zoo' EASTING: WATER DEPTH: (O' NOTES
Monitoring ID #	TIME 2: /2:(8	DEPTH (ft)	(NTUs)	DISTANCE FROM DREDGE/SILT CURTAIN: Zoo' EASTING: WATER DEPTH: (O' NOTES
Monitoring ID #	TIME 2: /2:(8	DEPTH (ft)	(NTUs)	DISTANCE FROM DREDGE/SILT CURTAIN: Zoo' EASTING: WATER DEPTH: (O' NOTES
ORTHING: IDAL STAGE: Fload	TIME 2: /2:(8	DEPTH (ft)	(NTUs)	DISTANCE FROM DREDGE/SILT CURTAIN: Zoo' EASTING: WATER DEPTH: (O' NOTES

AVERAGE TURBIDITY:

2008 WQ Monitoring Form

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

·					
PROJECT: NBH - Cad		TOP OF	CAD	Dredge Water Quality Monitoring Form	
JOB NUMBER: 6615-005.					
DATE: JUNE 17, 2008				<u> </u>	
MONITORS: JOSH PAUT	Jen ma	WHIND		A	
WEATHER CONDITIONS: CLEAN	/ . DOSE	pi bilkitu	of rain 1	damp) ~ 60°F to 70°F (A)DEX	1
WIND: COOL breeze	7				
PRIOR STORM EVENTS: VOLV	1. +m	nder v	ianten	ing last night 6/16-6/17	
DREDGE UPDATE:			***************************************	J.	•
TYPE OF WATER QUALITY MONIT	ORING: D	redaina	- UDTU	xrente down current monitoring	
			1		
			UP-CU	RRENT	
TIME: 0700 hrs				NUMBER OF HOURS OF DREDGING: D6 W5.	
GPS FILE NAME: 061708	***************************************			DISTANCE FROM DREDGE/SILT CURTAIN: 200 feet	
NORTHING: 2696628.4				EASTING: 815 259. 6	
TIDAL STAGE: & bing				WATER DEPTH: 5.5 Feet	
Saniani, u IP 4	TIRAT	DED'ELL //w	AVE	NOTES 49.2	ለሌላ
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY (NTUs)		
061708-02-1-2	D900	O CI	0.1	41.20 45 2.65=DD 7.89 DH 124.3 ORP 45.42 nS	em
	0000	21 C+	3.7	3.50 DO 7.86 PH 132.8 ORP 45.42 AS	Chu.,
	-	75	18.3		45
	0.000	2.P+		3.22 DO 17.83 PH, 140.8 ORP, 46.33, 42.17	42.2 D
	1300		-0.1	4.27/20, 7.80pH, 120.70 ep, 45.41 ms/cm, 41.98 ms/cm, 55	0000
	1300	2.511	0.1	4.00 DO 7.75pH, 151.8 62P, " " 54.3 2 DO	
061708-06-1- 1	900	3.0ft	-0.1	35400, 7.70 pH, 191.40RP, ", ", 47.6200	
ALIEDACE THOOMETY.					
AVERAGE TURBIDITY:		***************************************			
•	* .				
· .					
		**			
·			DOWN-C	URRENT	
TIME: 6830 hrs.				NUMBER OF HOURS OF DREDGING: Obkrs.	
GPS FILE NAME: 061708		·	•	DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet	
NORTHING: 2695753.3	***************************************	***************************************	•	EASTING: 815 300.1	
TIDAL STAGE: Ebbina	<u>Maringan Manhuaan maan maan ma</u>		•	WATER DEPTH: 34 feet	
			•		
			•		
1			AVE		
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY	NOTES	
			(NTUs)		24.7 6
	0850	2£+	13.9	1.74 DD 7.82 PH, 179. 40RP, 45:98 41.7	ے ارس ک
	0850	5£t.	22.3	2.30 00, 7.8004, 183.40RP, 46 63 25 , 41.8 ms/cm	31.9 D
	0850	95+	35.5	2.20 DO, 7.79 2H, 195 10 RP, 46.24 ms/cm, 41.97 ms/cm	129.7 D
The state of the s	<u> </u>	2 <u>C+.</u>	ع. ه	2.82 DO, 7-82 OH, 197.9 ORP, 45.72 ms/2 , 41 65 ms/cm	42.9 D
	29.00	3.5ft.	0.0	7.58 DO, 7.81 OH, 205.1 ORP, 45.89 notion, 41.76 notices,	34.700
	0900	5£+.	0.6	2-8000,7810H 211,90RP, 45.91 mg/Em, 41.78 ms/m37	
061708-00-9-2	B00	2 ff.	1.4	1-79 DO, 7-75 pt. 257.8 ORP, " " 25.7 DOTO	
061708-09-9-151	13 00	is ti .	4.1	2.08 DO 7.6604 297.502P " 11 28.0 DOZ.	
	13 00	32Ft	1.5	2.24 pg 7.64 pH, 3H. BORP, 37 5 DOZ.	

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

		, حصان جس		
PROJECT: NBH - TO		> Cell 2		Dredge Water Quality Monitoring Form
JOB NUMBER: 6615.005		-W1 m · W7:mmpmqqqq	· · · · · · · · · · · · · · · · · · ·	
DATE: June 17, 2009		1 0		
MONITORS: JEN MAYLY WEATHER CONDITIONS: SLY	10 = 1102	n Kay	C 4 -	
WEATHER CONDITIONS: SUY	iny ana	10-F-	COOL BYE	D-He /
WIND: COOL BY UZL	. / 1/	ما دا اما اح		· ala calara
PRIOR STORM EVENTS: KAL	n/shuna	Sina SCOW	WIND -TIVE	Mant between
TYPE OF WATER OLLA ITY MO	NUMI V	SILIV TOWN	SCLOS	urrent readings - turbidity ~ 200' from
	1311 (2) (1:452)	4-corners	<u>i inmin</u>	urrent readings-turbidity ~ 200' from
			UP-CUR	RENT
TIME: 15:588 ~~	11.00	من دا		NUMBER OF HOURS OF DREDGING: 08 Ws.
		nrs		
GPS FILE NAME: 061108 -			-	DISTANCE FROM DREDGE/SILT CURTAIN: 200 feet
		295760.15	Ĩ	EASTING: 8153 2-86
TIDAL STAGE: Flood (ow to high	h_)		WATER DEPTH: 36feet
	J			
Monitoring ID #	TIME	DEPTH (ft)	AVE TURBIDITY	NOTES
anomioning is m		Dram 711 (15)	(NTUs)	NO LES
061708-08-1-02	1600	2C+.	0.0	5-14 DO, 7-79 3H 111-50RP. 68-1 DOZ
061708-08-1-16	1606	16 Ft.	0.1	3.41 DO 7.66AH, 207.8 ORP. 29.9 DO?
061708-08 1-34	1600	34 ft.	n. 7	7.5300, 7.560H, 253.90RP, 31.9 DOOL
AVERAGE TURBIDITY: (/)	26			
•				

			DOWN-C	JRRENT
TIME: 1600 hrs.				NUMBER OF HOURS OF DREDGING: 08 Mrs.
GPS FILE NAME: 061709	-09-9		•	DISTANCE FROM DREDGE/SILT CURTAIN: 200 Feet
NORTHING: 264653	5.0			EASTING: 815236.7.
TIDAL STAGE: FLOOD (LO		a la 🕥	•	WATER DEPTH: 9.0 Cost
1.1000 (.74	NO TO PM	10.J.	•	
	·		ı.	
٠.			AVE	
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY	NOTES
A. 14 - A	111		(NTUs)	
061708-08-9-20		2.0	15	1.64 DO, 7.76 pH, 266.9 DRP, 20.6007.
061708-08-9-46		4 244	1.8	1.65 De, 7.78 pH, 275.40PP, 28.4 00%.
061708-08-9-60	1600	6.0	D-7	1.9600, 7.790H, 200.4049, 26.3 007-
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	1			
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AVERAGE TURBIDITY: (1-2	!)		·····	
	. /			

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity 2008 WQ Monitoring Form

PROJECT: NBH-CAT JOB NUMBER: 6615.005 DATE: 618108) (ell 2	Top (of CAD	Diedge Dispose verte desiry montoning Form
DISPOSAL EVENT: DUMPING MONITORS: JEN MAY HIVE WEATHER CONDITIONS: SUN	o 4 TOSK	i rau	nto CAD	Дрех
MIND: NONE		-1-/ 10-1		
PRIOR STORM EVENTS: NIA	,			
The state of the s		-		· · · · · · · · · · · · · · · · · · ·
			UP-C	URRENT
TIME: 0700 hrs.				TIME OF DISPOSAL: 0730 VIVS.
GPS FILE NAME: 061808-	-DO-1		_	DISTANCE FROM DISPOSAL LOCATION: 200 Cel +
NORTHING: 2695527	8	······	•	EASTING: 814873.8
TIDAL STAGE: FIDER (HIG	h to Lov	./)	•	WATER DEPTH: 33 feet
	Z L Z M Z Z		•	
Monitoring ID #	TIME	DEPTH (ff)	AVG TURBIDITY	NOTES
511655 05 1= 0 G	6 -480	1 A A	(NTUs)	0.0 3
061808-00-1-2.0	0700	2.0	- 0.3	3.3 Do. 7.02pH, 127. 2 ORP, 20.30°C, 40.6 Do%
061808-00-1-16.0	0710	16:0	0.0	2.6500, 7.8 pH, 136, 20 RP, 334 Do 16, 19.849
061808-00-1-31.0	0720	31.0	0.5	2.300, 7.78 p.H. HI. 9 OPP, 19.47°C, 28.4 Do"/6
				
			······································	
h	····			

A			[
AVERAGE TURBIDITY:	· · · · · · · · · · · · · · · · · · ·			
400			DISPOSA	L LOCATION
TIME: 0800 hrs.			_	TIME OF DISPOSAL: 0730 h(S.
GPS FILE NAME: 061808-	D1-00	λ	_	DISTANCE FROM DISPOSAL LOCATION: @ Location
NORTHING: 26959aa	1			EASTING: 814916,8
TIDAL STAGE: Flood (To	wtohic	lh)	_	WATER DEPTH: 48 feet
<u> Ден на при на при</u>	~~		-	
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	NOTES
061808-D1-00-2.0	0900	2.0	-0.5	1:21 DO, 7.86pH, 150.8 ORP, 20.47°C, 20.3 DOG.
061808-DI-00-23.0	0810	23.0	0.0	1.6400, 7.81 off, 1735 ORP, 20.05°C, 26.300%
061308-DI-00-46.0		46.0	48.7	1.8 DO, 7.76PH, 180.0 ORP, 19.56°C, 20.4 DO"6
APTEMBARAGE PROTECTION FOR ALABAMILIAN CONTRACTOR CONTR	************************			

			<u> </u>	
	***************************************	-	admonaconnecconnecconductor necessaries	
AVERAGE TURBIDITY:				

* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity



			DOWN-C	URRENT
TIME: 0730 hrs.				TIME OF DISPOSAL: 0730 Mrs.
GPS FILE NAME: 06/808-	DI-00-	9	_	DISTANCE FROM DISPOSAL LOCATION: 200 Feet
NORTHING: コムダイムコダブ	ا مايد		da.	EASTING: 914982.7
TIDAL STAGE: Flood 10	ow to his	<u>r) </u>		WATER DEPTH: 13 feet
				
	•		AVG	·
Manitoring ID #	TIME	DEPTH (ft)	TURBIDITY (NTUs)	NOTES
061808-DI-00-9-2	0130	2.0	-012	1.89 DC, 7.92 PH. 153.7 OLP, 20.46°C, 25.8 DO? 1.94 DC, 7.81 PH. 161.8 BRP, 20.44°C, 21.4 DO? 2.05 DC, 7.82 PH, 168.4 ORP, 20.23°C, 27.3 DC?
061808-D1-00-9-6 061808-D1-00-9-9	0740	(0 D	-0.2	1.94 DC, 7.810H, 161.8 BRP, 20.44.0 31.4 Dogs
061808-D1-00-9-9	<u>0145</u>	4.0	0.0	2.05 De, 7.82 pH, 168.4 OFP, 20.23°C, 27.2 002

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AVERAGE TURBIDITY: - (b·2 AITL	<u> </u>		

Dredge Disposal Water Quality Monitoring Form PROJECT: NBH-CAD COLL Z-TOP OF CAD JOB NUMBER: 6615.005.01 DATE: June 18,2008 DISPOSAL EVENT: DZ of day - Dumping of mud CAT MONITORS: Jen Martino + Josh Ra WEATHER CONDITIONS: SUMMY, BYELLY WIND: COOL Breezy PRIOR STORM EVENTS: N **UP-CURRENT** TIME: N 1130 hrs TIME OF DISPOSAL: 1130 hrs DISTANCE FROM DISPOSAL LOCATION: 100 Feet GPS FILE NAME: 061800-04-NORTHING: 2696228.0 EASTING: 8149714 5 TIDAL STAGE: Ebb (High to low) WATER DEPTH: 13 Ceet AVG TIME DEPTH (ft) TURBIDITY NOTES Monitoring ID # (NTUs) 1.45 DO, 7.34 PH, 245,6 ORP. 21.16°C, 20.41007. 1130 2.0 061608-04-1-2 - O.H 061808-04-1-7 7.0 20.5 1140 # 1/2 1145 <u>061809 - 04 - 1 - 11</u> **AVERAGE TURBIDITY:** DISPOSAL LOCATION TIME OF DISPOSAL: 1130 hrs TIME: 1145 hrs DISTANCE FROM DISPOSAL LOCATION: (2) LOCATION GPS FILE NAME: 061808-D2-04 EASTING: 814912.2 NORTHING: 2695948.0 TIDAL STAGE: Ebb (High to low) WATER DEPTH: 44 CPQ AVG Monitoring ID # TIME DEPTH (ft) TURBIDITY NOTES (NTUs) 061B08-D2-04-2 1150 2.0 ft. 1.0 061808-D2-04-20 USS 20.0 ft 0.1 40 10 ft 061808-D2-04-40 1200

* Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

			DOWN-CL	JRRENT
TIME: 1205 Nrs.				TIME OF DISPOSAL: 1130 hrs
GPS FILE NAME: NG 1808	-04-9	***************************************		DISTANCE FROM DISPOSAL LOCATION:
GPS FILE NAME: 061868 NORTHING: 26953	13.1			EASTING: 8149501%
TIDAL STAGE: AND E	bb CH	ian to la	(LU	WATER DEPTH: 52 Feet
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	NOTES
061808-04-9-15	1205	2	1.2	
061808-04-9-15	1210	15	3.2	
061808-04-9-30	1915	30	YXXX 252	-0

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AVERAGE TURBIDITY:				

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PROJECT: NBH						Dredge Disposal	Water Quality Monitoring Form
JOB NUMBER: (	<b>V</b>	**************************************	***************************************	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
DATE: 6/23/2008			<del></del>			**************************************	*
DISPOSAL EVENT:		· .		<u> </u>		·	
MONITORS: JK MB	· · · · · · · · · · · · · · · · · · ·					······································	MINOX
WEATHER CONDITIONS: (6	11 11 70	-2				TO THE RESERVE TO THE	
WIND: calm	×~3						· A
PRIOR STORM EVENTS:		······································	***************************************	· · · · · · · · · · · · · · · · · · ·			
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	<del></del>						
			UP-C	URRENT			
TIME:				TIME OF D	ISPOSAL:	•	
GPS FILE NAME:		<u> </u>	•	DISTANCE FROM DISPOSAL LOCATION:			
NORTHING:			•	EASTING:			
TIDAL STAGE:			-	WATER DE	PTH:		
			•				
CONTROL OF THE CONTRO			•				***
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY			NOTES	
monitoring ip #	FIFTE	DEFINITO	(NTUs)			NOTES	
THE STREET WAS ASSESSED.							
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AVERAGE TURBIDITY:							
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			DISPOSA	L LOCATIO	N	0725 - Tr	ouse all arms
TIME: 0740				TIME OF D	uenneat.		•
GPS FILE NAME: 06230	S IIA	5	•	DISTANCE	FROM DIS	SPOSAL LOCATION:	on location
NORTHING: 2696126.		<u>- U</u>	•	EASTING:	Rilling	SI SE	- Totalle
TIDAL STAGE: 1000	7/		•	WATER DE	EPTH: 47		
	· · · · · · · · · · · · · · · · · · ·		a				*
			•	Tru	<b>人し *</b>	ul pocket	for dump for 1 hr.
			AVG	200	**		
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY (NTUs)	100	PH	ORP NOTES T	o I Mr.
062308-1-10-5-	0840	40	30.2	1.42	777	298.2	
062308-1-10-5	0842	12	-O.4	1.89	7,18	298.8	· · · · · · · · · · · · · · · · · · ·
062308-1-10-5-	0344	20	8.2	1.79	1.18	300.5	
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AVERAGE TURBIDITY:							

PROJECT: NBH		•				Dred	ge Water Quality Monitoring Form
JOB NUMBER: 665.00	\ F.		······································				
DATE: 6(25/2008		The state of the s		·····			
MONITORS: MB JK			7.63	5:10		4 .	<b>-</b> 🔊
	udu		THE THE	11.52			- Mnex
WIND: Calm	<u>~~~</u>		112	1707			
PRIOR STORM EVENTS:		· · · · · · · · · · · · · · · · · · ·		101			<b></b> /
DREDGE UPDATE:						· · · · · · · · · · · · · · · · · · ·	uya-e
TYPE OF WATER QUALITY MOI	UTODING:						*****
THE OF WATER QUALITY HO	110/01/03					***************************************	· ·
				····	<del></del>	W	***************************************
			UP-CUP	RRENT		٠	
TIME: 0730				NUMBER (	F HOURS O	F DREDGING: $\mathcal{T}$	Dwina
GPS FILE NAME: 062308	D-1-C	<b>)</b>	•	DISTANCE	FROM DRED	GE/SILT CURTA	IN:
NORTHING: 2445 843.	[7	***************************************	•	EASTING:	81476	D-15	
TIDAL STAGE: FLOOC	2.5		н		PTH: 40	^~^~~~~ <del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	
TIOCI			•	11VIEV DE	<u>40</u>		
(						. *	•
			AVE				•
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY				NOTES
			(NTUs)				
047508-D.4 9-38	0730	38	0.2	201	719	224.3	
066808-17-1-92	0732	2	-0.4	219	7.80	225.1	· · · · · · · · · · · · · · · · · · ·
062308-D-1-920	0.754	20	-0.5	2.46	4.79	228.4	
002000-1-100	12127			L	<u> </u>	200.1	
		<u> </u>		-		····	
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	1:	<u> </u>	l	<u> </u>			<del></del>
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AVERAGE TURBIDITY:			······································				
			DOWN-C	URRENT		. 444. /844. /	
			<del>2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,</del>			<b>_</b>	and the same of
TIME: 0725			-			F DREDGING: \[ \int	
GPS FILE NAME: 062308	D. 1-0	<u> </u>	••			GE/SILT CURTA	in:
NORTHING: 2696365	. <i>8</i> 8			**************************************	814812	<u>u</u>	
TIDAL STAGE: LOW >+	tiah			WATER DE	EPTH: [ ] •		
	4.0		_				
			_			•	
,			AVE				
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY (NTUs)	DO:	H ORF	>	NOTES
062308.D-1-0-9	0125	14.0	-0.8	1 2 20 T		.4.9	
		15-9		3.27			<del></del>
067308-D-1-0-2	0726	1	-0.2			<u> </u>	
042308.D.1.05.5	0727	5.5	-0.2	2.95	<u>7.84 (</u>	75.6	
			***************************************		·		
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AVERAGE TURBIDITY:							

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT: 6615.	605				-	Dredge	Disposal Water Qua	lity Manitoring Form
JOB NUMBER:								
DATE: 6/23/08	, , , , , , , , , , , , , , , , , , ,	····	**************************************				**************************************	
DISPOSAL EVENT:		······································					— A	
MONITORS:				· · · · · · · · · · · · · · · · · · ·		······································	//\	NOY!
WEATHER CONDITIONS:							/ J row	
WIND:						······································	f	
PRIOR STORM EVENTS:	// · · · · · · · · · · · · · · · · · ·							
			-					
			····				· · · · · · · · · · · · · · · · · · ·	
			UP-C	URRENT				•
TIME: \3 3 D			***************************************		(AAAA	1335		
GPS FILE NAME:			•	TIME OF D	SPOSAL:	OSAL LOCATION	54. <i>d</i>	
NORTHING: 2696244				EASTING:	rkom da Ziz	1859	M. Approx.	200ft -per
TIDAL STAGE: 66	<i></i>		•	WATER DI		la		
		**************************************	•			<u> </u>	WWW.A.L.	
	······		•					•
Monitoring ID #	TIRAC	DEDTH (#A	AVG TURBIDITY			2100	ree	
<u>ν</u> ρ 1	TIME	DEPTH (ft)	(NTUs)			NO	E-9	
062308-02019	(3:33	<u> </u>	2.2		26.5	plt 7.77	21.96-6	26000
04 2308 DZ01 - 10	્3.3ન	10	2.5		235.2	6H7.74	22.48°C	2.88 DO
0023080201 - 2	35.36	2	1.5	ORP	231.7	PH 7.78	23.131	3.68 DU
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AVERAGE TURBIDITY:			·	<u> </u>				
							<del></del>	
			DISPOSA	L LOCATIO	N			
- 12. Ho						1335		
TIME: 13:48 GPS FILE NAME:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	DISTANCE		POSAL LOCATI	nki-	
			•	EASTING:	71/1	71.1	VII.	
NORTHING: 2696072 TIDAL STAGE: E 65	<u> </u>	· · · · · · · · · · · · · · · · · · ·	-	WATER D	<u>О/Т</u>	766 4 <b>6</b>	· · · · · · · · · · · · · · · · · · ·	
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Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY (NTUs)			NO	TES	
061368D.Z-15.35 _ 44	1:48	44	104.6					
062308 TOZ 15 5 - 21	1:50	2 j	1.3		301.8	pll 7.77	22.0/C	2-3100
04230802.155 _ 2	1:53	2		ORP	304.6	pl/ 7.77	22.95'6	2.6700
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AVERAGE TURBIDITY:	· .							

TURBIDITY IN CIRCLES Lightoning Form

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			DOWN-C	URRENT
TIME: 1338				TIME OF DISPOSAL: 13:35
GPS FILE NAME:		**************************************	•	DISTANCE FROM DISPOSAL LOCATION: 4 200 ft
NORTHING: 269579	<del>ا</del> رم		•	DISTANCE FROM DISPOSAL LOCATION: Approx. 200ff EASTING: 814717
TIDAL STAGE: (25)			•	WATER DEPTH: 36ft
			•	
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Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	NOTES
062308 D239 - 34	1:40	34	0.5	OFF 264 8 DH 7.76 21.68°6 2.26.00
0623080239-16	1541	16	0.1	ORR 271.8 DH7.76 22.486 2.6300
0623080239 - 2	1.43	2.	0.2	ORP 264.8 pH 7.76 21.686 2.2600 ORR 271.8 pH 7.76 22.486 2.6300 ORP 275.0 pH 7.76 22.796 3.1006
		4.0		
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AVERAGE TURBIDITY:				

**TURBIDITY INCREASE*:** 

Dredge Disposal Water Quality Monitoring Form PROJECT: NBH - Top of CAD JOB NUMBER: 6613.005.01 DATE: 6 14 00 DISPOSAL EVENT: PI of Mud cat MONITORS: Jen Martin + Josh Ray WEATHER CONDITIONS: Clear, Cool, Overcast ~ 650F WIND: COOL LYCERE PRIOR STORM EVENTS: Yain **UP-CURRENT** 0728 hrs TIME: TIME OF DISPOSAL: 07:28 GPS FILE NAME: 062408 - 00 - 1 DISTANCE FROM DISPOSAL LOCATION: 200 [4. NORTHING: 2696778 814772 WATER DEPTH: 42 TIDAL STAGE: Florad AVG Monitoring ID # TIME DEPTH (ft) TURBIDITY NOTES (NTUs) 062408-00.1.62 07:28 6.0 DEZTPS -00 1-10 07:30 20 0.2 67:32 40 BUZHOT DULL 40 AVERAGE TURBIDITY: り・3 みてん **DISPOSAL LOCATION** TIME OF DISPOSAL: 0728 K TIME: 0745 hrs DISTANCE FROM DISPOSAL LOCATION: ( Lacation GPS FILE NAME: 062408 - D1 - 00 NORTHING: 2696154. 8 EASTING: -(4778 WATER DEPTH: 31 Feet TIDAL STAGE: Flood AVG Monitoring ID # TIME DEPTH (ft) TURBIDITY NOTES (NTUs) 2.4 2.0 062408-DI-00-7 0745 3.4 16.0 062408-DI-00-16 0750 0624 NO-DI-00-24 0755 29.0 AVERAGE TURBIDITY: 21.4 NTU



			DOWN-C	URRENT		
TIME: 0730 WS	•			TIME OF DISPOSAL: 5728 hrs.		
GPS FILE NAME:		4		DISTANCE FROM DISPOSAL LOCATION:		
NORTHING: 269 6235	. 02		•			
TIDAL STAGE: Floac			•	EASTING: 814815.17 WATER DEPTH: 48 Feet		
TIPAL STATE OF THE	***************************************		4			
		***************************************	•	11		
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	NOTES		
A62488- 60-9-2	A730	2.0	0.2			
062408-00-9-2 062408-00-7-4 062408-00-9-9	0735	4.0	0.3			
04 74 00	0740	4.0	0.3			
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AVERAGE TURBIDITY:						

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PROJECT: NOH - TO	DOFIA	n h		Dredge Disposal Water Quality Monitoring Form						
JOB NUMBER: 6615 0	550	~ \VY	MAKT	rishosy/						
DATE: 6/26/08										
	Ć w	1 = 1								
MONITORS: Jen Martino + Warren B.										
WEATHER CONDITIONS	go + w	arren B	*	ANDEX						
WEATHER CONDITIONS: OU	ercast	muga	4, ⁵ , 75							
		à	****	*						
PRIOR STORM EVENTS: NJ	- rain	)								
•		•								
			HP-C	URRENT						
TIME: 1500				TIME OF DISPOSAL: 1505						
GPS FILE NAME: 062609	<u>3-05-1</u>	w		DISTANCE FROM DISPOSAL LOCATION: SOO FOLL						
NORTHING: 2696215	****		<u>-</u>	EASTING: 814863						
TIDAL STAGE: ELB				WATER DEPTH: 20 Ceet						
			_							
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY	NATES						
INITION OF THE PERSON OF THE P	1 117155	wer in (i)	(NTUs)	NOTES						
063608-05-1-2	1500	2	0.1							
062608-05-1-9		9	0.2							
062608-05-1-18		18	~7 . 1							
78797-00000-0000-0000-0000-0000-0000-000				,						
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AVERAGE TURBIDITY:										
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,			DISPOSA	LLOCATION						
TIME: 1515				TIME OF DISPOSAL: 1510						
	\~ \\\	£**	•	DISTANCE FROM DISPOSAL LOCATION: (2) LOCATION						
GPS FILE NAME: 062609 NORTHING: 2696109	<u> </u>	<b>347</b> (	-	EASTING: CHILLES						
TIDAL STAGE: Ebb	<del></del>		•	WATER DEPTH: 47 FOLK						
HDALSTAGE: T.DD			-	WATER DEPTITE 47 FOCT						
	<del></del>		-							
1 2 - 1			AVG							
Monitoring ID #	TIME	DEPTH (ft)	TURBIDITY	NOTES						
· · · · · · · · · · · · · · · · · · ·		·	(NTUs)							
062608-D1-05-2	1515	<i>.a</i>	3.0							
062608-DI-05-	1817	ווי בו	0.9	,						
	1520	95 23	119.5							
·		123	2.3							
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				119.5						
				2.:						
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		total .	= 124.7/							
			1							
AVERAGE TURBIDITY:	<u> </u>			41.2 vm						



			DOWN-C	URRENT
TIME: 1510				TIME OF DISPOSAL: 1510
GPS FILE NAME: 06260	0 - ne -	9		DISTANCE FROM DISPOSAL LOCATION: 200 Feet
NORTHING: 8695784	2	***************************************	•	EASTING: 814171
TIDAL STAGE: Ebb	1947* 		•	WATER DEPTH: 30 Ret
HDALOTAGE. 296			•	WITHOUT III. SOURCE
			•	
Monitoring (0 #	TIME	DEPTH (ft)	AVG TURBIDITY	NOTES
063608-05-9-14 063608-05-9-14 063608-05-9-26	1510	2	(NTUs)	
060000000000000000000000000000000000000	1511	14	0,9	
21-36-05-9-20	1513	28	2.2	, , , , , , , , , , , , , , , , , , ,
060000 83	1315			**************************************
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AVERAGE TURBIDITY:	***************************************		***************************************	

TURBIDITY INCREASE opitoring Form

**AVERAGE TURBIDITY:** 



				DOWN-C	URRENT
TIME: 08:5	'n				TIME OF DISPOSAL: 08:45
GPS FILE NAME:	<u> </u>		***************************************	•	DISTANCE FROM DISPOSAL LOCATION: 150 ft.
NORTHING: 2(64	<	<u> </u>	FB WARRANA AND AND AND AND AND AND AND AND AND	•	EASTING: 814695
TIDAL STAGE: EN	Jl3	2		•	WATER DEPTH: 32
HENDONINGE CAN	<u> </u>			•	
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1		• • • • • • • • • • • • • • • • • • • •	DEPTH (ft)	AVG TURBIDITY (NTUs)	NOTES
063008-1-5-9 063008-1-5-9 063008-1-5-9	2	08:50	2_	.3	
0(30(1) 1-3 9	11.	08:50	16	3.2	
063006-1-5-9	36	08:50	30	2.3	
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AVERAGE TURBIDITY:					

TURBIDITY NEREAS Epilloring Form

TIME:	12:25				TIME OF DISPOSAL:		
GPS FILE NAM NORTHING: TIDAL STAGE	26960	2)		• •	DISTANCE FROM DISPOSAL LOCATION:  EASTING: \$15055  WATER DEPTH: 42		
Monitoring ID # TIME DEPTH (ft)			DEPTH (ft)	AVG TURBIDITY (NTUs)	NOTES		
020808.	1225.2	12-25	2	1.3			
Te .	11 .3	12:25	2.0	6.7			
74	11 .4	12:25	900 740	13.5			
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AVERAGE TU	RBIDITY:						

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT: NBH - TO	A 45 1			· ·
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OB NUMBER: 6615.00 ATE: 71108	5.01	· · · · · · · · · · · · · · · · · · ·		
DISPOSAL EVENT: DI OF	CF - 10'	<b>i</b> 7	4	
MONITORS: JM + GC	<u> </u>	<u> </u>	DAY PH C	bredge)
VEATHER CONDITIONS:	money I-la	O.\$ #10	< • C	
NIND: COOL Greeze			3 1	
PRIOR STORM EVENTS:	ΙΔ.			ANNAL MENTAL CONTRACTOR OF THE PROPERTY OF THE
				**************************************
·				
			UP-C	URRENT
ime: 0650 hrs				TIME OF DISPOSAL: C650 WS
PS FILE NAME: 071108	- 00 - 1			DISTANCE FROM DISPOSAL LOCATION: 200
ORTHING:				EASTING:
IDAL STAGE: 166				WATER DEPTH: 30*
			43.75	•
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY	NOTES
074108-00-1-2	10 1 W. 10	2.0	(NTUs)	
171108 - 00-1 - 14	0650	14.0	1.3	
) 71108-00-1-14 ) 71108-00-1-28	0653	29.0	6.5	
71.NDB-00-1- 20				
yddinennau ar				
* 1 197 November 1914 - *41 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<b>†</b>		
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			***************************************	
AVERAGE TURBIDITY:				
AVERAGE TURBIDITY:			DISPOSA	L LOCATION
				L LOCATION
				TIME OF DISPOSAL: D656
TIME: OG 3	-d1-0	O (SE-1		TIME OF DISPOSAL: DOSO DISTANCE FROM DISPOSAL LOCATION: ( Location
TIME: OG 5 GPS FILE NAME: O TILOS NORTHING:	-d1-0	D (SE-I		TIME OF DISPOSAL: DOSO DISTANCE FROM DISPOSAL LOCATION: (CO Location)
TIME: OG 3	-d1-0	O (SE-I		TIME OF DISPOSAL: DOSO DISTANCE FROM DISPOSAL LOCATION: ( ) ( ) ( )
TIME: OG 5 GPS FILE NAME: O TILOS NORTHING:	-d1-0	O (SE-I		TIME OF DISPOSAL: DOSO DISTANCE FROM DISPOSAL LOCATION: (CO Location)
TIME: 065 75 GPS FILE NAME: 0711 08 NORTHING: TIDAL STAGE: 966			AVG	TIME OF DISPOSAL: DOSS DISTANCE FROM DISPOSAL LOCATION: (Conception) EASTING: WATER DEPTH: 32
TIME: OG 5 GPS FILE NAME: O TILOS NORTHING:	-dl-o	DEPTH (ff)	03)	TIME OF DISPOSAL: DOSO DISTANCE FROM DISPOSAL LOCATION: ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (
TIME: 065 75 GPS FILE NAME: 0711 08 NORTHING: TIDAL STAGE: 966	TIME		AVG TURBIDITY	TIME OF DISPOSAL: DOSS DISTANCE FROM DISPOSAL LOCATION: (Conception) EASTING: WATER DEPTH: 32
TIME: OG 7 GPS FILE NAME: OTILOS NORTHING: TIDAL STAGE: FIG. Monitoring ID # OTILOS- AI - OO - 2	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	TIME OF DISPOSAL: DOSS DISTANCE FROM DISPOSAL LOCATION: (Conception) EASTING: WATER DEPTH: 32
TIME: OG 7 GPS FILE NAME: OTILOS NORTHING: TIDAL STAGE: FIG. Monitoring ID # OTILOS- AI - OO - 2	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	TIME OF DISPOSAL: DOSS DISTANCE FROM DISPOSAL LOCATION: (Conception) EASTING: WATER DEPTH: 32
TIME: 0653 GPS FILE NAME: 0711 08 NORTHING: TIDAL STAGE: 866  Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	TIME OF DISPOSAL: DOSS DISTANCE FROM DISPOSAL LOCATION: (Conception) EASTING: WATER DEPTH: 32
TIME: OG 7 GPS FILE NAME: OTILOS NORTHING: TIDAL STAGE: FIG. Monitoring ID # OTILOS- AI - OO - 2	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	TIME OF DISPOSAL: DOSO DISTANCE FROM DISPOSAL LOCATION: (Conception) EASTING: WATER DEPTH: 32
TIME: OG 7 GPS FILE NAME: OTILOS NORTHING: TIDAL STAGE: FIG. Monitoring ID # OTILOS- AI - OO - 2	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	TIME OF DISPOSAL: DOSO DISTANCE FROM DISPOSAL LOCATION: (Conception) EASTING: WATER DEPTH: 32
TIME: OG 7 GPS FILE NAME: OTILOS NORTHING: TIDAL STAGE: FIG. Monitoring ID # OTILOS- AI - OO - 2	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	TIME OF DISPOSAL: DOSO DISTANCE FROM DISPOSAL LOCATION: (Conception) EASTING: WATER DEPTH: 32
TIME: OG 7 GPS FILE NAME: OTILOS NORTHING: TIDAL STAGE: FIG. Monitoring ID # OTILOS- AI - OO - 2	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	TIME OF DISPOSAL: DOSO DISTANCE FROM DISPOSAL LOCATION: (Conception) EASTING: WATER DEPTH: 32
TIME: OG 7 GPS FILE NAME: OTILOS NORTHING: TIDAL STAGE: FIG. Monitoring ID # OTILOS- AI - OO - 2	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	TIME OF DISPOSAL: DOSO DISTANCE FROM DISPOSAL LOCATION: (Conception) EASTING: WATER DEPTH: 32
TIME: OG 7 GPS FILE NAME: OTILOS NORTHING: TIDAL STAGE: FIG. Monitoring ID # OTILOS- AI - OO - 2	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	TIME OF DISPOSAL: DOSO DISTANCE FROM DISPOSAL LOCATION: (Conception) EASTING: WATER DEPTH: 32
TIME: OG 7 GPS FILE NAME: OTILOS NORTHING: TIDAL STAGE: FIG. Monitoring ID # OTILOS- AI - OO - 2	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	TIME OF DISPOSAL: DOSO DISTANCE FROM DISPOSAL LOCATION: (Conception) EASTING: WATER DEPTH: 32
TIME: OG 7 GPS FILE NAME: OTILOS NORTHING: TIDAL STAGE: FIG. Monitoring ID # OTILOS- AI - OO - 2	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	TIME OF DISPOSAL: DOSO DISTANCE FROM DISPOSAL LOCATION: (Conception) EASTING: WATER DEPTH: 32
TIME: OG 7 GPS FILE NAME: OTILOS NORTHING: TIDAL STAGE: FIG. Monitoring ID # OTILOS- AI - OO - 2	TIME	DEPTH (ft)	AVG TURBIDITY (NTUs)	TIME OF DISPOSAL: DOSO DISTANCE FROM DISPOSAL LOCATION: (Conception) EASTING: WATER DEPTH: 32



			DOWN-C	JRRENT	
TIME: 0655 MVS GPS FILE NAME: 07110				TIME OF DISPOSAL: 0550 hr5	
GPS FILE NAME: 07 110	8-00-0	7	•	DISTANCE FROM DISPOSAL LOCATION: 200	
NORTHING:				EASTING:	
TIDAL STAGE: 616			<b>.</b>	WATER DEPTH: 31'	
		······································			
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY	NOTES ·	
		2.0	(NTUs)	· · · · · · · · · · · · · · · · · · ·	
071108-00-9-2 071108-00-9-15 071108-00-9-29	A656	15.0	0.0		
D71108 -00-9-29	0651	15.0 29.0	か.3		
		/1000/0004/10070/2007/10070/2007/1007/2007/	F		
	***************************************	***************************************			
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		V.24/ 7440/M25-WA48-WY-78-WY-88-WA48-P-W446-P-			
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			<u>. Tana ing ma</u> ngunannya gayung munah Mus		
AVERAGE TURBIDITY:	andraandek nadak-dranik Mederane ne-en	nakowa nakowa - <del>Vijeko ya sa sa sa sa sa sa sa</del>			

2008 WQ Disposal Monitoring Form

PROJECT: NBH- To	op of C	AP2		Ureage Disposes Water Quality Monitoring Form
JOB NUMBER: (65.0	05.01			
DATE: 7 15 08	N 675 140	3 6/2 .		<u> </u>
MONITORS: IM+JK+	- 36 - 10	3,36-	104. m	uc (at
WEATHER CONDITIONS:	<u> </u>	- · · · · · · ·		
WIND: Slight breeze	may w	arrn, 30	0 -p-	
PRIOR STORM EVENTS:	Δ	<del></del>	,	
		. /2.49/48/	7.4/1	.,,
• •				
			<u>UP-C</u>	URRENT
TIME: 0945 hrs			_	TIME OF DISPOSAL: 0700 - 0915 hrs
GPS FILE NAME: 07/508	-00-1		·	DISTANCE FROM DISPOSAL LOCATION: 200 '
NORTHING: 2696380	**************************************	WWW.notonness.wassensesses		EASTING: 814731
TIDAL STAGE: CLL				WATER DEPTH: 13.0'
			•	
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY	NOTES
			(NTUs)	
071508-00-1-2	0945		-0.2	
071508-00-1-5	0946	5.0	0.D 0.S	
D 11508-00-7-11	9771	11.0	0.3	
				7,200
, , , , , , , , , , , , , , , , , , , ,	<u> </u>			, , , , , , , , , , , , , , , , , , , ,
н		<u> </u>		
		<b></b>		
AVERAGE TURBIDITY:				
			DISPOSA	L LOCATION
The same in				TIME OF DISPOSAL: 0700 - 0915 Hrs
TIME: 0905 WS GPS FILE NAME: 071508-	751		•	DISTANCE FROM DISPOSAL LOCATION: (2) Location
NORTHING: 2695980	491.00		*	EASTING: 814693
TIDAL STAGE: 666			•	WATER DEPTH: 40'
			<u>.</u>	
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY	NOTES
-			(NTUs)	
071508-01-00-2		3.0	<u>-0.4</u>	
071508-d1-80-	0126	(8.0	0.3	
071508-d1-00-	0927	38.0	1071.7	
		<u> </u>		
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Pantinanti-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		***************************************		
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AVERAGE TURBIDITY:	-			
g. u = num var v mrans a tyra tamerament t t t			41002 Grassmannian mannan	



			DOWN-C	CURRENT
TWE SCALE	*			TIME OF DISPOSAL: 0700 - 0915 hrs
TIME: 0935 H/S	5 55 5			TIME OF DISPUSAL: D 100 - D 113 A73
GPS FILE NAME: D'//S D	8-00:7			DISTANCE FROM DISPOSAL LOCATION: 200 /
NORTHING: 269584			•	EASTING: 814639
TIDAL STAGE: Ebb			_	WATER DEPTH: 30'
			•	
Monitoring ID #	TIME	DEPTH (ft)	AVG TURBIDITY	NOTES
		2.6	(NTUs)	
071508-00-9-2	0733		-0.4	
071508-00-9-14	0936	14.0	-0.3	
071508-00-9-14 071508-00-9-18	0137	25.0	6.5	
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AVERAGE TURBIDITY:				

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PROJECT:	Steamship Authority			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			<del></del>	Drei	ige Water Quality Monitoring Fo
JOB NUMBER: DATE: "1   3\ (0 )	6588.006							٨	
MONITORS: YEL!			<del></del>				***************************************		
WEATHER CONDITIONS:	75 F FOY	4 ItAZY						// <b>\\</b> F	)ex
WIND: Calm		· · ·							Craph Laco 10
PRIOR STORM EVENTS:		<u> </u>	- T	30 08		***************************************			
DREDGE UPDATE: 1	MONITORING: DRED		SPOSAL T	tzalos	****	<del>-</del>	<del></del>		
TIPE OF WATER GOACH	The state of the s	<del></del>						`	
	_								
			·	UP-CURRE	·NT	***************************************	***************************************		
			TOTAL WATER	SAMPLE	TURBIDITY			TYPE OF WOM &	NUMBER OF HOURS
Monitoring ID #	NORTHING/ EASTING	TIME	DEPTH (R)	DEPTH (R)	(NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM	DREDGING
	2691677	0110	14	7.	-0.4				0
	818167	0710	- 11	12	-0.4	MA	Flood	zouft	
, <u>, , , , , , , , , , , , , , , , , , </u>		0710	AVERAGE		36				
	2691970	0915	20	2	0.1				
	45+4 817884	0915	20	7	0.7	N/A	EPP	700 12	2
	1.0011 01.100	8915	20	13	25.8	/ / **	<u> </u>	*	***************************************
			AVERAGE	TURBIDITY:	3.36	J			
	12691903	11:10	ा 🔻	2	0.1	T			
	<b>S</b>	Tier T	াস্ত	7	0.5	NIA	Cab	1258+	4. ;
	1817873	11:12	18	G	1.1	, <u></u>	450		
			AVERAGE	TURBIDITY:		J			
<u></u>	2671598	ायाह	8	7	0.1	T	Plood		
	1 .	1420	8	4	-e.3	N/A	Chi	160 ft.	_
	818281	1471	8	6	6.7	1 7*	Exa		
			AVERAGE	TURBIDITY:			1		
	2671666	16.45	8	1_	12.4	······································			
	, .	16:45	3	4	3.2	NIA	Pool	175 ft.	9 '
	818223	16:45	8	ly	0.7	1	<u>L</u>	11771,	<u> </u>
			AVERAGE 1	TURBIDITY:	<u> </u>				
								W	, , , , , , , , , , , , , , , , , , ,
•									
							<u></u>	<del></del>	
				DOWN-CURE	RENT				
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER	SAMPLE	TURBIOTTY	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM	NUMBER OF HOURS
monitoring is #			DEPTH (ft)	DEPTH (ft)	(NTUs)			DREDGE/SILT	DREDGING
	2691744	0120	2.1 2.1		0.0	4/4	Fland	1758+	0
<u></u>	817885	0720	21	18	0.4	- 74	1 '0000	1 (311	_
	· · · · · · · · · · · · · · · · · · ·		TURBIDITY		0.56				
				······		T	<del></del>		
	2691605	0925	8	<u></u>	-0.2	A17 -	02	a (1	•
	818363	0925	5.		-0.4	N/A	G,b	200 \$1.	2.
	<u>. t                                   </u>	0125	TURBIDITY	NCREASE	00		Щ		
				*	<u> </u>	<u> </u>			
	2471406	10.3	Lo	- 0-5も	2. f+				
	818368	11:20	م) ا	-0.54		NIA	Ebb	20014	4
<u>, 10</u>	1	<u> الشنطاس</u> ا	TURBIDITY	<u>る</u> の本 NCREASE:	- 47F	<u> </u>	L		7
			L			J 			
	2691944	1426		2	4.5		Pleed		
	817885	1427		λ	4.7	N/A	St.	200f2	7
	1 01 1603	1428	TURBIDITY:	NCWEASE	6.60	<del>                                     </del>	LOPEL		<u> </u>
			TURDINITY I	NUNLACE.	J	J	/		
	2492021	1435	-45 [7	2	0.	.1/.	ا بیر		^
	おいろい	1635			0.7	N/A	Flood	1504	9
	1 01 ( 101	ك كال	THERIDITY	15	<u> </u>	J	<u> </u>		*

MONITORS: WEATHER CONDITIONS: MIND: 12 MON NO PRIOR STORM EVENTS: DREDGE UPDATE:	NOTE: 514/00  STEE: 514/00  DINITORS: 152/5WP  EATHER CONDITIONS: 78/6  ND: 10mg/s 11W										
			TATAL INSTED					TYPE OF WOM &			
Monitoring ID #	NORTHING/ EASTING	TME 12.100	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM	NUMBER OF HOURS DREDGING		
	2696189, 814743	12:02	40 40	21 39	0.1	MIA	Esh	75ft	0		
			AVERAGE	TURBIDITY:							
						;					
**************************************	nneanneanneanneann <del>e sannaanna ⁽ ( ) ( ) ( ) ( ) ( )</del>		AVERAGE	TURBIDITY:		X					
	e Transmitte		,,			1	1				
			AVERAGE.	TURBIDITY:							
		·				I					
		<u> </u>	AVERAGE	TURBIDITY:				- WWA' AT THE VIOLENCE			
			· · · · · · · · · · · · · · · · · · ·								
			AVERAGE 1	TURBIDITY:		***************************************			<del>-</del>		
			·····								
		<u>-</u>					~~~				
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER	SAMPLE	TURBIONY	GPS FILE NAME	TUM STAGE	DISTANCE FROM	NUMBER OF HOURS		
Monitoring ID #	2695600	12:35	DEPTH (ft) ろり	DEPTH (ft)	(NTUs) -0.2.	T	· · · · · · · · · · · · · · · · · · ·	DREDGE/SILT	DREDGING		
	814733	12:40	3+ 3-1	16 32	-0.4 2.2	NA	€bs	150ft	0		
			TURBIDITY	INCREASE:		J T	<u> </u>				
		<b>I</b>	TURBIDITY	INCREASE:							
			TURBIDITY	INCREASE:				A===A=================================			
		······································									
			TURBIDITY	INCREASE:		<u> </u>					
		<u> </u>									
			TURBIDITY	INCDEASE.							
			IURDIUIT	HIVINEMOE.		ı 					
	Assessed Tracking The Courses										

PROJECT: JOB NUMBER:	Steamship Authority 6588.00	**************************************	<del></del>			hduffiadhadh Milliohna ann abhatadh		Dre	dge Water Quality Monitoring F
	9290.00	,				***************************************		Λ	
	ERIUB							/ <b>A</b> \ _	
WEATHER CONDITIONS.	Sciency								эех
	Zknk Com	<u>N</u>							Comeynaur (166)
PRIOR STORM EVENTS: DREDGE UPDATE:								<i>!</i>	
TYPE OF WATER QUALITY	MONITORING: ORE	DGE ) DI	SPOSAL						
		74							
				UP-CURRE	:NT				
								TYPE OF WOM &	
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GP5 FILE NAME	TIDAL STAGE	DISTANCE FROM	NUMBER OF HOURS DREDGING
070508L00.1.2	GDS Not	0725	(L)	2.	0.0			LOCATION	
CEOSIX 1 3	wer kinn	0125	٠,	3'	0.0	N/A	Flood	zooff.	0
C86508-00_1_4	1	0725	4) (EDACE:	L 4'	0.8	11/44	_		
			AVERAGE	TURBIUITY:	0. 233	J			
And and all 19	2641581	09:40	11,	2,	3.2				
050506_82_1_2 050506_82_1_5	318266	69:47	11"	5	0.4	N/A	Flood	150ft.	2_
080568.02.1.9	21044	69144	().	4.	<b>~0.4</b>	1 1 1 1	1140		
ما ما ما ما		İ	AVERAGE	TURBIDITY:	1-07	J			
CK0506-04-1-2	2691935	12:00	14.	7'	0.0				4.1
080506_09-1.K	· ·	12:04	11	6.	1.2	N/A	Fbb	Zooff	4
CONTROL 4-1-17	814054	2106	19.	15'	Gran D	<b>.</b>			
		ļ	AVERAGE *	TURBIOTY:	22.4	J			
050505_06_1.2	2691936	14:20	2./	Z,	7.4	***************************************			
010508-00-1-1		14:23	2//	9.	20.2	N/A	6 Jb	200 ft	ų
040508-86-1-19	। शहान	14752	2'	<u> </u>	24.8	1-7-7			
		}	AVERAGE 1	TURBIDITY:	10.13	ļ			
010501_b -#-1-7	7194476	16:46	177	2.	0.4			<b>C</b> 3	<b>.</b>
08 0504 DI - 2 . 1 . 5	314665	10:44	177	8	0.7	N/A	E PP	zooft	Disposal
98450x-51 - 4_1-15	1(7007	La:54	AVERAGE	TURBIDITY:	2.5				<u> </u>
		,	7101.1111.01	TORCHOTT.	<u> </u>	J			
		-^	M						
	•								
				DOWN-CURE	RENT				
			TOTAL WATER	SAMPLE	TURBIDITY			DISTANCE FROM	NUMBER OF HOURS
Monitoring ID #	NORTHING/ EASTING	TIME	DEPTH (ft)	DEPTH (ft)	(NTUs)	GPS FILE NAME	TIDAL STAGE	DREDGE/SILT	DREDGING
09,6505-00-9-1	Gps not	07.40	20	2	0.0		1		6
081508 nb T. 1b	works a	07 14 D	70.	10	0.0	N/4	Flood	zooft	
<u> </u>		07140	TURBIDITY		0.0	· · · · · · · · · · · · · · · · · · ·			
				***************************************		1			
080508_02-1- L	2691935	0150	(4)	2 .	2.7			0 - E-L	Z
DK05HK-02.1.8		0157	14.	9.	1.0	N/A	Flood	200 ft	2
ABD 3004 AFT 1 B	EAST NOT IT		14 ·	17'	1.Z	1 1			
erespt1-1-	818055	10754		MODELAN.			· · · · · · · · · · · · · · · · · · ·	***************************************	
erssol-42-1-19	. 818 <i>0</i> 55	10754	TURBIDITY	NCREASE:	. 543		· · · · · · · · · · · · · · · · · · ·		
<u> erssol-+1-7-[1</u>		123 [0]		<u>E</u>	2.7				
050506-04-7-2 050506-04-7-2	2-91662	123 10	TURBIDITY	<b>4</b>	2.7 0.4	N/A	566	150 F+	4
050506-04-7-2 050506-04-7-2		123 [0]	TURBIDITY	į	2.7 0.4 4.5	N/4	гьь	150 F+	4
080508-04-1-2 080508-04-1-2 080508-04-1-4	2-91662	123 10	TURBIDITY	į	2.7 0.4	,	гьь	150 f+	4
0#8508-04-1-2 0#8508-04-1-2 0#8508-04-1-4 0#8508-04-1-4	2-91662 38597	12010 12015 12017	TURBIDITY I	NCREASE:	2.7 0.4 4.5		гьь		
080508-04-1-2 080508-04-1-2 080508-04-1-4 080508-04-1-8	2491662 38897 2691661	21 0  10 5  10 7  10 97	TURBIDITY I	NCREASE:	2.7 0.4 4.5 -19.86	,		150 ft 200ft	4
080508-04-1-2 080508-04-1-2 080508-04-1-4 080508-04-1-8	2-91662 38597	12010 12015 12017	TURBIDITY I	NCREASE:	2.7 0.4 4.5 -\4.86 -0.4 1.2	N/4	err		
080508-04-1-2 080508-04-1-2 080508-04-1-4 080508-06-1-2 080508-06-1-3	2691661 2691661 518403	1910 1915 1817 18187 18187 1917	TURBIDITY I	NCREASE:	2.7 0.4 4.5 -\1.26 -0.4 1.2 -1.5,33	N/4			
080508-04-1-2 080508-04-1-2 080508-04-1-4 080508-06-1-2 080508-06-1-2	2691661 2691661 518403	1210 1205 1217 1410 1410	TURBIDITY I TURBIDITY I TURBIDITY I	NCREASE:	2.7 0.4 4.5 -\1.36 -0.4 1.2 1.9 -15,\$3	N/4	EPP	200ft	4
060506-02-7-13 060506-04-7-2 060506-04-7-4 060506-06-7-9 060506-06-7-9	2695612	1210 1205 1217 1410 1410 16:85 16:85	TURBIDITY I	NCREASE:	- 543 2.7 0.4 4.5 -17.36 -0.4 1.2 1.9 -15.53	N/4			
080508-04-1-2 080508-04-1-2 080508-04-1-4 080508-06-1-2 080508-06-1-2	2695612	1210 1205 1217 1410 1410	TURBIDITY I TURBIDITY I TURBIDITY I	NCREASE:	2.7 0.4 4.5 -\1.36 -0.4 1.2 1.9 -15,\$3	N/4	EPP	200ft	4

TE: 850	6588.006	5	. ,			44/ha-11/2/11-4-14/4-14	·	٨	
	er/HB		***************************************					/A\ _	
EATHER CONDITIONS:	Senny	41					******************************		XSX
ND: to the tents:	Zlents Germ	<u>N</u>	·····					/#	Short Hove 1 :
REDGE UPDATE:								Ø.	
PE OF WATER QUALITY	MONITORING: OREI	DGE / DI	SPOSAL						
•									
				UP-CURRE	NT				
			YOT N INSTED	SAMPLE			•	TYPE OF WOM &	NUMBER OF HOURS
Monitoring ID #	NORTHING! EASTING	TIME	TOTAL WATER DEPTH (ft)	DEPTH (%)	TURBIOITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM	DREDGING
1050%.00.1.2	GX Not	0115	<u> </u>	2:	0.0		T	4 -	
70518-00-1.3	- we leven	0124	<b>'</b>	<u> </u>	0.0	N/A	Flood	zooft.	0
805C8-00_1_4		0725	AVERAGE	THERMINITY	0.8	1.77			
			AVEIMOL	TUNDIDITT:	( V, P)				
50506_02_! - 2	2691581	09:40	11'	2 '	3.2				
Kolok-ez-1-5		07:42	1/	5	0.4	NA	Flood	150ft.	2
60506.02.1.9	318266	04144	11'	4:	-0.4	( • •	,	,	<b>-</b>
			AVERAGE	TURBIDITY:	1.07				
€-664 Ko≤66-64-1-2]		12.00	14.	7	0.0		11		. 1
80506-04-1-R	2641935	17:04	111	4.	(, 2,	NIA	そわわ	Zooff	4
#8508 _ 84-1-17	\$1\$05L	2,06		15.	66.0	*			
			AVERAGE	TURBIDITY:	22.4	i			
80505-06-1-2	2691936	14:20	21 '	L'	1,7				A -
10508 - 00 - 1. 1	818019	14,23	2/	9	20.2	N/A	5 bb	200 ft	Ų
10508-06-1-19	DI S DI	114722	2.	[9·	20.8	- <u> </u>	<u> </u>		
		,	AVERAGE	INKRIDITA:	16.28	j			
0505 bi-0-1-7	2696476	16:46	17.	2.	0.4		1 1	<i>F</i> 1.	
14504 DI- 2.1 3		16:45	174	8.	0.7	N/A	FLL	20017	Disposal
KO<02.51-4.1-15	114665	16:50	AVERAGE	1 15'	2.5			=4.00/	
				7071042724.		,			
							,		
n dagan d	MALITANINA PROPINS AREAS A			DOWN-CURE	RENT				
thay year year year week and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of t	ME-MAY		TATAL WATER	DOWN-CURI				DISTANCE FROM	MINISTER OF MOURS
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER		RENT TURBIDITY (NTUs)	QPS FILE NAME	E TIDAL STAGE	DISTANCE FROM DREDGESELT	NUMBER OF HOURS
		тіме		SAMPLE DEPTH (H)	TURBINTY	ī	T ,	DREDGE/SB.T	DREDGING
90508-00-0-1-16	Opes mat	07.40 07.40	70°	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	ī	Flood	DREDGE/SH.T	
10508-00-0-1-16	Opes mat	07.40	20. 70. 50. 0664H(6)	SAMPLE DEPTH (H)	TURBIDITY (NTUs)	OPS FILE NAME	T ,	DREDGE/SB.T	DREDGING
10508-00-0-1-16	Opes mat	07.40 07.40	20. 70. 50. 0664H(6)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	ī	T ,	DREDGE/SB.T	DREDGING
96518.00.0.1.1 18508.06.7-16 60508-00-7-18	ops not working	07.45 07.140 07.140	DEFTH(R)  Z.C.  Z.O.  TURBIDAY	SAMPLE DEPTH (H)	TURBIDITY (NTUa)	ī	T ,	DREDGESSLT PUBLAN ZOOF+	OREDGING
10508-00-0-1 12508-00-1-10 80508-00-1-18 80508-02-1-2 80508-02-1-2	2691935	07:40 67:40 61:40	20. 70. 50. 0664H(6)	SAMPLE DEPTN (H)	TURBIDITY (NTUs)	NJA	Flood	DREDGE/SB.T	DREDGING
10508-00-0-1 12508-00-1-16 10508-00-1-18 10508-02-1-2 10508-02-1-2	2691935	07.45 07.140 07.140	DEPTH(R)	SAMPLE DEPTH (ft)	TURBIOTY (NTUs)  0.0  0.0  0.0  0.0  0.0  1.7	ī	T ,	DREDGESSLT PUBLAN ZOOF+	OREDGING
10508-00-0-1 12508-00-1-18 60508-02-1-18 80508-02-1-2	2691935	07:40 67:40 61:40	DEPTH(R)	SAMPLE DEPTH (tt)	TURBIOTY (NTUs)  0.0  0.0  0.0  2.7  1.0	NJA	Flood	DREDGESSLT PUBLAN ZOOF+	OREDGING
10508-00-0-1 10508-00-1-16 60508-00-1-18 60508-02-1-2 60508-02-1-13	2641935 28055	07:45 97:40 27:40 0150 0157 0734	DEPTH(R)	SAMPLE DEPTH (ft)	TURBIOTY (NTUs)  0.0  0.0  0.0  2.7  1.2  .563	NJA	Flood	zooft 200ft	OREDGINA  2
90508-00-0-1-18 80508-00-1-18 80508-02-1-2 80508-02-1-2 80508-02-1-2 80508-04-1-2	2691935 2691935 2691935	07:45 67:40 67:40 67:50 61:52 67:54 12:10	DECTH(M)  20  TURBIDITY  TURBIDITY  TURBIDITY	SAMPLE DEFITI(H)  2  10  10  INCREASE:  17  INCREASE:	TURBIOTY (NTUs)  0.0  0.0  0.0  2.7  1.7  5.63	N/A	Flood	zooft 200ft	OREDGING
10508-00-0-1-16 10508-00-1-18 10508-02-1-2 10508-02-1-13 10508-02-1-13 10508-04-1-2	2641935 28055	07:45 07:40 07:40 07:50 07:57 07:57	DEPTH (N)  ZD'  TURBIDITY  TURBIDITY  TURBIDITY	SAMPLE DEFITI(H)  2  10  10  10  10  10  10  10  10  10	TURBIOTY (NTUs)  0.0  0.0  0.0  2.7  1.2  5.63	N/4 N/a N/4	Flood	DREDGESSLT PUBLAN ZOOF+	OREDGINA  2
90508-00-0-1-18 80508-00-1-18 80508-02-1-2 80508-02-1-2 80508-02-1-2 80508-04-1-2	2691935 2691935 2691935	07:45 67:40 67:40 67:50 61:52 67:54 12:10	DEPTH (N)  ZD'  TURBIDITY  TURBIDITY  TURBIDITY	SAMPLE DEFITI(H)  2  10  10  INCREASE:  17  INCREASE:	TURBIOTY (NTUs)  0.0  0.0  0.0  2.7  1.7  5.63	N/4 N/a N/4	Flood	zooft 200ft	OREDGINA  2
10508-00-0-1 12508-00-1-16 10508-02-1-2 10508-02-1-2 10508-04-1-2 10508-04-1-2 10508-04-1-2	2691935 2691935 2691662 2691662 318397	07:45 07:40 07:40 01:40 01:52 07:4 07:4 12:10 12:10	DEPTH (N)  ZD'  TURBIDITY  TURBIDITY  TURBIDITY	SAMPLE DEFINITION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPE	TURBIONY (NTUs)    0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0	N/A	Flood	200ft 200ft 150ft	OREDGING  Z
90508-00-0-1-16 80508-02-1-18 80508-02-1-2 80508-02-1-2 80508-04-1-2 80508-04-1-2 80508-04-1-4 80508-04-1-4	2691935 2691935 2691662 2691662 2691661	07:45 07:40 07:40 01:40 01:52 07:4 07:4 12:10 12:10	TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEFINITION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPE	7.7 (NTUs) 0.0 0.0 0.0 0.0 0.0 0.0 1.7 1.7 5.5 3 4.5 -17.86	N/4 N/a N/4	Flood	zooft 200ft	OREDGINA  C
10508 -00 - 1 - 1 10508 -00 - 1 - 1 10508 -02 - 1 - 2 10508 -02 - 1 - 2 10508 -04 - 1 - 2 10508 -04 - 1 - 2 10508 -04 - 1 - 2 10508 -06 - 1 - 2	2691935 2691935 2691662 2691662 318397	07:45 07:40 07:40 01:40 01:52 07:4 02:10 12:10 12:17	TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEFITH (H)  2  INCREASE:	7.7 (NTUs) 0.0 0.0 0.0 0.0 0.0 1.7 1.7 5.5 3 2.7 0.1 4.5 -17.8 1.7	N/A N/A	Flood	200ft 200ft 150ft	OREDGING  Z
90508-00-0-1-18 80508-02-1-18 80508-02-1-2 80508-02-1-2 80508-04-1-2 80508-04-1-2 80508-04-1-4 80508-04-1-4	2691935 2691935 2691662 2691662 2691661	07:45 07:40 07:40 01:40 01:52 07:4 07:4 12:10 12:10	TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEFINITION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPE	7.7 (NTUs) 0.0 0.0 0.0 0.0 0.0 0.0 1.7 1.7 5.5 3 4.5 -17.86	N/A N/A	Flood	200ft 200ft 150ft	OREDGING  Z
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				DOWN-CUR				DICTABLE FROM	· · · · · · · · · · · · · · · · · · ·
Monitoring ID #	NORTHING/ EASTING	тіме	TOTAL WATER DEPTH (ft)	DOWN-CURP SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GP6 FILE NAME	TROM, STAGE	DISTANCE FROM DREDGE/SAT CHEZAM	NUMBER DRE
Monitoring ID #  (%070%-00-9-2  0 %070%-00-9-3  0 %070%-00-9-3	3 64 1750 N	TIME	TOTAL WATER DEPTH (ft)	DOWN-CURF	TURBIOTTY	GP6 FILE NAME	TIDAL STAGE	DREDGE/S/LT	NUMBER DRE
090708-00-9-2	817763E	10:20	TOTAL WATER DEPTH (ft)	DOWN-CURP SAMPLE DEPTH (H) J. 6 7.6 /7.8	TURBIOTTY (NTUs)	GP6 FILE NAME	<del></del>	DREDGE/SALT	DRE
080708-00-9-2 080708-00-9-1 080708-00-9-1	361763E	12:00 13:00 13:00	TOTAL WATER DEPTH (H)	DOWN-CURP SAMPLE DEPTH (R) 3.0 7.0 170 INCREASE:	TURBIOTTY (NTUs)	·7 37.78	<del></del>	DREDGE/SILT	DRE
080708-00-9-2 080708-00-9-3 080708-00-9-1	817763E	10:20 F2:00	TOTAL WATER DEPTH (R)	DOWN-CURF SAMPLE DEPTH (R) 3, 0 7,0 1,72,8 INCREASE:	TURBIOTIY (NTUs) 0 - 1 0 - 7 -1 : 0	.7	Ling	DREDGE/SALT	0 O
080708-00-9-2 080708-00-9-1 080708-00-9-1 080708-03-1-10 080708-03-1-10	3617638 B117638 3013017 N 8178358	12:00 13:00 13:00	TOTAL WATER DEPTH (#)    5     TURBIDITY   0     TURBIDITY	DOWN-CURF SAMPLE DEPTH (R) 3, 0 7,0 1,72,8 INCREASE:	TURBIDITY (NTUs)    0   1	-7 -37:7:8	Flood	DREDGE/SET	00
080708-00-9-2 080708-00-9-1 080708-00-9-1 080708-01-1-3 080708-04-9-12	361763E	12:00 13:00 13:00	TOTAL WATER DEPTH (II)	DOWN-CURP SAMPLE DEPTH (R) 3.0 7.0 1.70 INCREASE:	TURBIOTY (NTUs)  0 • 1  0 • 7  - 1 • 0  - 3 • 7  - 3 • 8	·7 37.78	Ling	DREDGE/SILT	00
080708-00-9-2 080708-00-9-1 080708-00-9-1 080708-02-9-10 080708-02-9-10 080708-04-9-2 080708-04-9-2	3641670 N B11763 E 3642017 N 817825 E	12:00 13:00 13:00	TOTAL WATER DEPTH (#)	DOWN-CURP SAMPLE DEPTH (R) 3.0 7.0 1.70 INCREASE:	TURBIOTY (NTUs)  0 • 1  0 • 7  -1 • 0  -3 × 5	-7 -37:7:8	Flood	DREDGE/SET	0 O
080708-00-9-2 090708-00-9-1 090708-00-9-1 090708-01-1-10 090708-01-1-10 080708-01-1-12 080708-01-1-2 080708-01-1-2	3641670 N B11763 E 3642017 N 817825 E	10:20 12:00 12:00 10:10 10:10	TOTAL WATER DEPTH (#)  /S  /G  TURBIDITY  DO  TURBIDITY  JY  TURBIDITY  TURBIDITY  100/	DOWN-CURP SAMPLE DEPTH (R) 2,0 1/7,3 INCREASE: 1/0' INCREASE: 1/0' INCREASE: 1/2' INCREASE:	TURBIDITY (NTUs)  0 • 1  (2 · 7  -1 · 0  -3 · 9  -6 · 3  -6 · 3  -6 · 6	37.78	Flood Flood Flood	DREDGE/SET	00
080708-00-9-2 080708-00-9-1 080708-00-9-1 080708-02-9-10 080708-02-9-10 080708-04-9-2 080708-04-9-2	3641550 N B11763E 3643017 N 817825 E	12:00 13:00 13:00	TOTAL WATER DEPTH (ft)	DOWN-CURP SAMPLE DEPTH (H) J. O' 7.3 INCREASE: J. O' INCREASE: INCREASE: INCREASE:	TURBIOTIY (NTUs) 0 • 1 0 • 7 -0.7 -1.0	-7 -37:7:8	Flood Flood	DREDGE/SET	00
080708-00-9-2 090708-00-9-1 090708-00-9-1 090708-01-1-10 090708-01-1-10 080708-01-1-12 080708-01-1-2 080708-01-1-2	3641590 N B11763E 3641670 N 817835 E 3641670 N 817957 E	12:00 12:00 12:00 12:01	TOTAL WATER DEPTH (#)  /S  /G  TURBIDITY  DO  TURBIDITY  JY  TURBIDITY  TURBIDITY  100/	DOWN-CURP SAMPLE DEPTH (H) J. O' 7.3 INCREASE: J. O' INCREASE: INCREASE: INCREASE:	TURBIDITY (NTUs)  0 • 1  (2 · 7  -1 · 0  -3 · 9  -6 · 3  -6 · 3  -6 · 6	37.78	Flood Flood Flood	DREDGE/SET	00
080708-00-9-2 090708-00-9-1 090708-00-9-1 090708-01-1-10 090708-01-1-10 080708-01-1-12 080708-01-1-2 080708-01-1-2	3641590 N B11763E 3641670 N 817835 E 3641670 N 817957 E	12:00 12:00 12:00 12:01	TOTAL WATER DEPTH (ft)	DOWN-CURP SAMPLE DEPTH (H) J. O' 7.3 INCREASE: J. O' INCREASE: INCREASE: INCREASE:	TURBIDITY (NTUs)  0 • 1  (2 · 7  -1 · 0  -3 · 9  -6 · 3  -6 · 3  -6 · 6	37.78	Flood Flood Flood	DREDGE/SET	0 ()

	MONITORING: DRED	GE / (DI	SPOSAL						
TYPE OF WATER QUALITY									
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Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER	SAMPLE	TURBIOTTY	GPS FILE NAME	TENAL PRACE	TYPE OF WOM &	NUMBE
Monitoring ID #	2696347 N	21539	DEPTH (ft)	DEPTH (ft)	(NTUs)	GFOT ALC NOTES.	TIDAL STAGE	DISTANCE FROM	DR
080706-d1-06-1-	814699 E	533	18'	2	~0.4	080708	Ebb	200'	0
380708-d1-06-1-		Li\$35	18,	16	0.0				
			AVERAGE T	URBIDITY:		<u></u>			
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		<b>1</b>	AVERAGE 1	URBIDITY:					
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			AVERAGE 1	URBIDITY					· · · · · · · · · · · · · · · · · · ·
			AVERAGE 1	TURBIDITY:					· · · · · · · · · · · · · · · · · · ·
			AVERAGE 1	FURBIDITY:					
			AVERAGE 1	FURBIDITY:					<b>,</b>
Dispose	l of SE1-:	2000	AVERAGE 1	TURBIDITY:					
	of SEI-:	2000	A A 4 4 4 4 7 5 8 1	TURBIDITY:	ENT				
,			TOTAL WATER	DOWN-CURF	TURBIDITY	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM	
, , , , , , , , , , , , , , , , , , , ,	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	DOWN-CURF SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE! SILT CLIETAIN	
Monitoring ID #	NORTHING/EASTING	TIME 1536 1538	TOTAL WATER DEPTH (tt)	DOWN-CURF SAMPLE DEPTH (ft)	TURBIDITY (NTUs) -0.9			DREDGE/SILT	DI
Monitoring ID #	NORTHING/EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	tureibity (NTUs)	CPS FILE HAME		DREDGE/SILT	DF
Monitoring ID# / \$0708-41-86-9 / \$0708-41-06-9 / \$0708-41-66-9	NORTHING/EASTING	TIME 1536 1538	TOTAL WATER DEPTH (tt)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs) -0.9			DREDGE/SILT	DF
Monitoring ID# / \$0708-41-86-9 / \$0708-41-06-9 / \$0708-41-66-9	NORTHING/EASTING	1536 1538 1539 1540	TOTAL WATER DEPTH (II)	DOWN-CURE SAMPLE DEPTH (ft) 3.0 3.0 NOREASE	TURBIDITY (NTUs) -0.9 -1.3 -1.2	0\$0708	E66	DREDGE/SILT	O.
Monitoring ID# /90708-J1-166-9 /90708-J1-66-9 /90708-J1-66-9	NORTHING/EASTING	1536 1538 1540	TOTAL WATER DEPTH (III)  284 324  TURBIDITY:	DOWN-CURE SAMPLE DEPTH (ft) 3.0 33.0 NOREASE	TURBIDITY (NTUs) -0.9 -1.3 -1.2		E66	DREDGE/SILT	O.
Monitoring ID# / \$0708-41-86-9 / \$0708-41-06-9 / \$0708-41-66-9	NORTHING/EASTING	1536 1538 1539 1540	TOTAL WATER DEPTH (II)	DOWN-CURF SAMPLE DEPTH (ft) 3.0 33.0 NOREASE. 2.0	TURBIDITY (NTUs) -0.9 -1.3 -1.2	0\$0708	E66	DREDGE/SILT	O.
Monitoring ID# //\$0708-J1-\$6-9 //\$0708-J1-66-9 //\$0708-J1-66-9	NORTHING/EASTING	1536 1538 1540	TOTAL WATER DEPTH (III)  22 32 32 32 32 32 32 32 32 32 32 32 32 3	DOWN-CURF SAMPLE DEPTH (ft) 3.0 33.0 NOREASE. 2.0	TURBIDITY (NTUs) -0.9 -1.3 -1.2	0\$0708	E66	DREDGE/SILT	O.
Monitoring ID# //\$0708-J1-\$6-9 //\$0708-J1-66-9 //\$0708-J1-66-9	NORTHING/EASTING	1536 1538 1540	TOTAL WATER DEPTH (III)  22 32 32 32 32 32 32 32 32 32 32 32 32 3	DOWN-CURF SAMPLE DEPTH (ft) 3.0 33.0 NOREASE. 2.0	TURBIDITY (NTUs) -0.9 -1.3 -1.2	0\$0708	E66	DREDGE/SILT	O.
Monitoring ID# //\$0708-d1-\$6-9 //\$0708-d1-06-9 //\$0708-d1-66-9	NORTHING/EASTING	1536 1538 1540	TOTAL WATER DEPTH (III)  1 32  TURBIDITY  TURBIDITY	DOWN-CURE SAMPLE DEPTH (ft) 3.0 3.0 NCREASE:	TURBIDITY (NTUs) -0.9 -1.3 -1.2	0\$0708	E66	DREDGE/SILT	O.
Monitoring ID# / 80708-21-86-9 / 80708-41-06-9 / 80708-21-66-9	NORTHING/EASTING	1536 1538 1540	TOTAL WATER DEPTH (III)  22 32 32 32 32 32 32 32 32 32 32 32 32 3	DOWN-CURE SAMPLE DEPTH (ft) 3.0 3.0 NCREASE:	TURBIDITY (NTUs) -0.9 -1.3 -1.2	0\$0708	E66	DREDGE/SILT	O.
Monitoring ID# / \$0708-JL-\$6-9 / \$0708-JL-66-9 080708-JL-66-9	NORTHING/EASTING	1536 1538 1540	TOTAL WATER DEPTH (III)  1 32  TURBIDITY  TURBIDITY	DOWN-CURE SAMPLE DEPTH (ft) 3.0 3.0 NCREASE:	TURBIDITY (NTUs) -0.9 -1.3 -1.2	0\$0708	E66	DREDGE/SILT	NUMBE DR
Monitoring ID# //\$0708-J1-\$6-9 //\$0708-J1-66-9 //\$0708-J1-66-9	NORTHING/EASTING	1536 1538 1540	TOTAL WATER DEPTH (III)  1 32  TURBIDITY  TURBIDITY	DOWN-CURE SAMPLE DEPTH (ft) 3.0 3.0 NCREASE:	TURBIDITY (NTUs) -0.9 -1.3 -1.2	0\$0708	E66	DREDGE/SILT	O.
Monitoring ID# //\$0708-d1-\$6-9 //\$0708-d1-06-9 //\$0708-d1-66-9	NORTHING/EASTING	1536 1538 1540	TOTAL WATER DEPTH (III)  1 32  TURBIDITY  TURBIDITY	DOWN-CURF SAMPLE DEPTH (ft) 3.0 3.0 NORREASE: 10.0 NORREASE:	TURBIDITY (NTUs) -0.9 -1.3 -1.2	0\$0708	E66	DREDGE/SILT	O.
Monitoring ID# / \$0708-JL-\$6-9 / \$0708-JL-66-9 080708-JL-66-9	NORTHING/EASTING	1536 1538 1540	TURBIDITY	DOWN-CURF SAMPLE DEPTH (ft) 3.0 3.0 NORREASE: 10.0 NORREASE:	TURBIDITY (NTUs) -0.9 -1.3 -1.2	0\$0708	E66	DREDGE/SILT	O.
Monitoring ID #	NORTHING/EASTING	1536 1538 1540	TURBIDITY	DOWN-CURF SAMPLE DEPTH (ft) 3.0 3.0 NORREASE: 10.0 NORREASE:	TURBIDITY (NTUs) -0.9 -1.3 -1.2	0\$0708	E66	DREDGE/SILT	O.

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OB NUMBER:	6588.006 OS							$\Lambda$	
ONITORS: MAM	20	ear, x	יאינטו פו	d ~ 7	00 <i>f</i> #	Aird da		/	SOV
VEATHER CONDITIONS:	Sunny, a		JU WWY	<u> </u>	<u> </u>	110-22	4-00	way	3 GX cloud
RIOR STORM EVENTS: , REDGE UPDATE: 00		Lae	<del></del>					/	the second control of the second
YPE OF WATER QUALITY			SPOSAL						
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				UP-CURRI				******* **** **** **	
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
080808-00-1-5	# 26 T 1 G D T	0715	# 2',	2,	-1-6		- A		
8080D-00-1-7	818	0720	g'	13.	1-1:3	08080B	Flood	2001	
			AVERAGE	TURBIDITY:		)			
Se0808-06-1-2	2691911	1330	7/	2'	0.4		[ ]		
280808-06-1-H	817688	335	7′	#_	0.1	080808	86b	200'	06
× 808-06-1-5	0,1000	11332	AVERAGE	TURBIDITY:	0.0		<u> </u>		
24-26V CE		1.20 1200		77, 27, 27, 11, 1	1 2 3	·			······································
290909-09-1-2 080009-09-(-10	2691929	1545 1547	22'	10'	8:4	100808	Ebb	1001	na Na
1- 90-00-00-1- 90	017964	1549	22'	20'	0.2		000	200'	08
			AVERAGE	TURBIDITY:					
				1		•			
			AVERAGE:	TURBIDITY:	I	J			
			AVERAGE	TURBIDITY:		<u>.                                    </u>			
			AVERAGE	TURBIDITY:					
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Monitorine ID &	NORTHING/ EASTING	TIME	AVERAGE.	TURBIDITY:  DOWN-CURI  SAMPLE	TURBIDITY	GPS FILE HAME	TIDAL STAGE	DISTANCE FROM	NUMBER OF HOURS
Monitoring ID #	NORTHING/ EASTING	TIME [0726	AVERAGE.  TOTAL WATER DEPTH (ft)	DOWN-CURI SAMPLE DEPTH (ff)	TURBIDITY (NTUs)	GPS FILE HAME	TIDAL STAGE	DREDGE/SILT	NUMBER OF HOURS DREDGING
80000-00-9-2	2691973	1070%	TOTAL WATER DEPTH (#)	DOWN-CURI	TURBIDITY (NTUs)		1	DREDGE/SILT	
BODO - 00-9-2	2691973		TOTAL WATER DEPTH (ft)	DOWN-CURI SAMPLE DEPTH (ff)	TURBIDITY (NTUs)	GPS FILE NAME	1	DREDGE/SILT	DREDGING
080808-00-9-10 080808-00-9-10 080808-00-9-10	2691973 517648	0726 0728 0730	TOTAL WATER DEPTH (H)  20' 20' TURBIDITY	DOWN-CURI SAMPLE DEPTH (ff) 10' 10' INCREASE:	TURBIDITY (NTUs)		1	DREDGE/SILT	DREDGING
090008-04-9-2	2691973	0726 0728 0730	TOTAL WATER DEPTH (#) 20' 20' TURBIDITY	DOWN-CURI SAMPLE DEPTH (ff) 10' 10' INCREASE:	TURBIDITY (NTUs)  -11  -1. 5  -0. 6	080808	Floacl	DREDGE/SILT	DREDGING
090008-04-9-2	2691973 517648	0726 0728 0730	TOTAL WATER DEPTH (#) 20' 20' TURBIDITY	DOWN-CURI SAMPLE DEPTH (ff)	TURBIDITY (NTUs)  -11  -1. 5  -0. 8		1	DREDGE/SILT	DREDGING
080808-00-9-2	2691973	0726 0728 0730	TOTAL WATER DEPTH (#) 20' 20' TURBIDITY  8' 8'	DOWN-CURI SAMPLE DEPTH (ff) 10' 10' INCREASE:	TURBIOTY (NTUs)  -1. 7  -1. 5  -0. 8	080808	Floacl	DREDGE/SILT	DREDGING
090908-06-9- 010908-00-9-10 090908-06-9-10 010808-06-9-	2691973 1017640 2691682 1018398	1345 1345 1350	TOTAL WATER DEPTH (ft) 20' 20' TURBIDITY  6' TURBIDITY	DOWN-CURI SAMPLE DEPTH (ff) 10' 10' INCREASE: 14' 6' INCREASE:	TURBIOTY (NTUS)  -1. 7  -1. 5  -0. 6  -0. 6  9. 8  22. 8	081908	Fload Ebb	DREDGE/SILT	DREDGING  OC
90808-06-9-10 90808-06-9-10 90808-06-9-2 90808-06-9-	2691973 517648 2691682 518398	0726 0728 0730 1345 1341 1350	TOTAL WATER DEPTH (H)  20' 20' TURBIDITY  8' 8' TURBIDITY	DOWN-CURI SAMPLE DEPTH (ff) 10' 10' INCREASE: 14' 6' INCREASE:	TURBIOTY (NTUS) -1. 7 -1. 5 -0. 6 -0.6 -2.8 -2.8	080808	Fload Ebb	DREDGE/SILT	DREDGING
80808-00-9-2 80808-00-9-10 80808-00-9-10 10808-06-9- 80808-06-9-	2691973 517648 2691682 518398	1345 1345 1350	TOTAL WATER DEPTH (#) 20' 20' TURBIDITY  8' 8' 4' TURBIDITY	DOWN-CURI SAMPLE DEPTH (ff) 10' 10' INCREASE:	TURBIOTY (NTUS)  -1. 7  -1. 5  -0. 6  -0. 6  9. 8  22. 8	081908	Fload Ebb	DREDGE/SILT	DREDGING  OC
80808-06-9-	2691973 517648 2691682 518398	0726 0728 0730 1345 1341 1350	TOTAL WATER DEPTH (#) 20' 20' TURBIDITY  8' 8' 4' TURBIDITY	DOWN-CURI SAMPLE DEPTH (ff) 10' 10' INCREASE: 2' 41' 6' INCREASE:	TURBIOTY (NTUS) -1. 7 -1. 5 -0. 6 -0.6 -2.8 -2.8	081908	Fload Ebb	DREDGE/SILT	DREDGING  OC
90808-06-9-10 90808-06-9-10 90808-06-9-2 90808-06-9-	2691973 517648 2691682 518398	0726 0728 0730 1345 1341 1350	TOTAL WATER DEPTH (#) 20' 20' TURBIDITY  8' 8' 4' TURBIDITY	DOWN-CURI SAMPLE DEPTH (ff) 10' 10' INCREASE: 2' 41' 6' INCREASE:	TURBIOTY (NTUS) -1. 7 -1. 5 -0. 6 -0.6 -2.8 -2.8	081908	Fload Ebb	DREDGE/SILT	DREDGING  OC
090000-00-9-2 090000-00-9-10 09000-00-9-10 090000-00-9-2 090000-00-9-	2691973 517648 2691682 518398	0726 0728 0730 1345 1341 1350	TOTAL WATER DEPTH (H)  20' 20' TURBIDITY  8' 8' TURBIDITY	DOWN-CURI SAMPLE DEPTH (ff) 10' 10' INCREASE:  2' 4' 6' INCREASE: INCREASE:	TURBIOTY (NTUS) -1. 7 -1. 5 -0. 6 -0.6 -2.8 -2.8	081908	Fload Ebb	DREDGE/SILT	DREDGING  OC
090208-04-9-2	2691973 517648 2691682 518398	0726 0728 0730 1345 1341 1350	TOTAL WATER DEPTH (H)  20' 20' TURBIDITY  8' 8' TURBIDITY	DOWN-CURI SAMPLE DEPTH (ff) 10' 10' INCREASE: 2' 41' 6' INCREASE:	TURBIOTY (NTUS) -1. 7 -1. 5 -0. 6 -0.6 -2.8 -2.8	081908	Fload Ebb	DREDGE/SILT	DREDGING  OC
090000-00-9-2 090000-00-9-10 09000-00-9-10 090000-06-9-2 010808-06-9-	2691973 517648 2691682 518398	0726 0728 0730 1345 1341 1350	TOTAL WATER DEPTH (H)  20' 20' TURBIDITY  8' 8' TURBIDITY	DOWN-CURI SAMPLE DEPTH (ff) 10' 10' INCREASE:  2' 4' 6' INCREASE: INCREASE:	TURBIOTY (NTUS) -1. 7 -1. 5 -0. 6 -0.6 -2.8 -2.8	081908	Fload Ebb	DREDGE/SILT	DREDGING  OC
090000-00-9-10 090000-00-9-10 090000-00-9-10 090000-00-9-1 090000-00-9-	2691973 517648 2691682 518398	0726 0728 0730 1345 1341 1350	TOTAL WATER DEPTH (H)  20' 20' TURBIDITY  6' 6' TURBIDITY  TURBIDITY	DOWN-CURI SAMPLE DEPTH (ff) 10' 10' INCREASE:  2' 4' 6' INCREASE: INCREASE:	TURBIOTY (NTUS) -1. 7 -1. 5 -0. 6 -0.6 -2.8 -2.8	081908	Fload Ebb	DREDGE/SILT	DREDGING  OC

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D.	OB NUMBER:	6588.006	<u> </u>	······	~ · · · · · · · · · · · · · · · · · · ·				· A	
M	ONITORS:	2		·		***************************************	***************************************	······································	<b>/A</b> \	_
W	EATHER CONDITIONS:	RAIN!! Turnd	ert Lie	NHENINA	- Late	attendo	n skies (	haved	- swill	XAC
W	AND: 10-15-10-		`	, ,					//	
PF	RIOR STORM EVENTS:	Lain							. /	o wayaa sa
	REDGE UPDATE: CILL YPE OF WATER QUALITY		GE / D	ISPOSAL	<del></del>				•	
۳	THE OF TAMIER WOMEN	MOMITORING: DAEL	- U	NOTUOAL			_		•	
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-				•				······································		·
					UP-CURRE	NI				
	Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER	SAMPLE	TURBOTTY	GPS FILE NAME	THOM STAGE	TYPE OF WOM &	NUMBER OF H
ļ		1	····	DEPTH (ft)	DEPTH (ft)	(NTUs)			DISTANCE FROM	DREDGIN
	01108-00-1-2	ł	0850	16,	10'	3.0		حاماع	A/	
0	DI109-00-1- 16		0855	10,	16,	4.5	Dellop	200	200	00
				AVERAGE	TURBIDITY:	T		<u> </u>		<u> </u>
14	continued be	meenws. 0	7-06	nomen	er st	<u>~~ +eo</u>	shong fi	الكالان سو	<u>M.</u>	
ď	61108-09-1- Q	3 pi Lings from SW come	LD15_	20	<u>a'</u>	7.3	l			_
Ω	B1108 - 08-1-	TYPEN DIVICENTE	مالتا	90'	9'	0.6	801189	लवेड	150'	08
25	81108-0B-1-	of steamship	100	20'	THOUSEN.	-1.3	<b></b>			L
		CAPS NOT CONTRE	CENHS.	AVERAGE 1	UKBIDITY:	L	J			
								······································	***************************************	
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-				AVERAGE '	TORODO (1Y)		J			
		]					]			(8/) 50,/57
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-			<u> </u>	Attendance	l montes					
1				AVERAGE	IORBIDITY:	<u> </u>	J			
		V-10-1								
L						Ϊ	'			
				AVERAGE	rurbidity:				•,	
					DOWN-CURF					
	Monitoring ID #	NORTHING/ EASTING	TIME			RENT TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DIST ANCE FROM DREDGE/SILT	
	Monitoring ID #  ≫NOS - 00 - 9 - 2		0635	TOTAL WATER	DOWN-CURF SAMPLE DEPTH (ff)	TURBIDITY			DREDGE/SILT CURTAIN	
	Buog-00-9-2	2691579	0835	TOTAL WATER DEPTH (#)	DOWN-CURF SAMPLE DEFTH (ft)	TURBIDITY (NTUs) 0.3	GPS FILE NAME	TIDAL STAGE	DREDGE/SILT	
		2691579	0635	TOTAL WATER DEPTH (ff)	DOWN-CURF SAMPLE DEFTH (ft) 2' 5'	TURBIDITY (NTU»)			DREDGE/SILT CURTAIN	DREDGIN
	Buog-00-9-2	2691579 818353	0835 0847 0840	TOTAL WATER DEPTH (#)	DOWN-CURF SAMPLE DEFTH (ft) 2' 5'	TURBIDITY (NTUs) 0.3			DREDGE/SILT CURTAIN	DREDGIN
00	08108-00:9-2 00108-00-9-5 81(08-00-9-7	2691579 818353	0835 0847 0840	TOTAL WATER DEPTH (ff)	DOWN-CURF SAMPLE DEFTH (ft) 2' 5'	TURBIDITY (NTUs)  0.3  -0.1 -0.9	08110B	Ebb	200'	DREDGIN
OQ Co	281108-00-9-2 201108-00-9-5 81108-00-9-7 81108-08-9-4	2691579 818353 Even w dock of steamship	0635 0641 0945 0945	TOTAL WATER DEPTH (H)	DOWN-CURF  SAMPLE DEPTH (ff)  2' 7' INCREASE:	TURBIDITY (NTUs)  0.3  -0.1  -0.9		Ebb	DREDGE/SILT CURTAIN	DREDGIN
00	Buog-00-9-2	2691579	0835 0847 0840	TOTAL WATER DEPTH (#)	DOWN-CURF  SAMPLE DEPTH (ff)  2'  T' INCREASE:	TURBIDITY (NTUs) 0.3 -0.1 -0.9	08110B	Ebb	200'	DREDGIN
O O O	281108-00-9-2 201108-00-9-5 81108-00-9-7 81108-08-9-4	2691579 818353 Even w dock of steamship	0635 0641 0945 0945	TOTAL WATER DEPTH (H)	DOWN-CURF  SAMPLE DEPTH (ff)  2'  T' INCREASE:	TURBIDITY (NTUs)  0.3  -0.1  -0.9	08110B	Ebb	200'	DREDGIN
OQ Co	281108-00-9-2 201108-00-9-5 81108-00-9-7 81108-08-9-4	2691579 818353 Even w dock of steamship	0635 0641 0945 0945	TOTAL WATER DEPTH (#)	DOWN-CURF  SAMPLE DEPTH (ff)  2'  T' INCREASE:	TURBIDITY (NTUs)  0.3  -0.1  -0.9	08110B	Ebb	200'	
OQ Co	281108-00-9-2 201108-00-9-5 81108-00-9-7 81108-08-9-4	2691579 818353 Even w dock of steamship	0635 0641 0945 0945	TOTAL WATER DEPTH (#)	DOWN-CURF  SAMPLE DEPTH (ff)  2'  T' INCREASE:	TURBIDITY (NTUs)  0.3  -0.1  -0.9	08110B	Ebb	200'	DREDGIN
00	281108-00-9-2 201108-00-9-5 81108-00-9-7 81108-08-9-4	2691579 818353 Even w dock of steamship	0635 0641 0945 0945	TOTAL WATER DEPTH (#)  9'  7'  TURBIDITY  TURBIDITY	DOWN-CURF SAMPLE DEPTH (ff) 2' 7' INCREASE: 2' 4' 5' INCREASE:	TURBIDITY (NTUs)  0.3  -0.1  -0.9	08110B	Ebb	200'	DREDGIN
00 00	281108-00-9-2 201108-00-9-5 81108-00-9-7 81108-08-9-4	2691579 818353 Even w dock of steamship	0635 0641 0945 0945	TOTAL WATER DEPTH (#)	DOWN-CURF SAMPLE DEPTH (ff) 2' 7' INCREASE: 2' 4' 5' INCREASE:	TURBIDITY (NTUs)  0.3  -0.1  -0.9	08110B	Ebb	200'	DREDGIN
OQ Co	281108-00-9-2 201108-00-9-5 81108-00-9-7 81108-08-9-4	2691579 818353 Even w dock of steamship	0635 0641 0945 0945	TOTAL WATER DEPTH (#)  9'  7'  TURBIDITY  TURBIDITY	DOWN-CURF SAMPLE DEPTH (ff) 2' 7' INCREASE: 2' 4' 5' INCREASE:	TURBIDITY (NTUs)  0.3  -0.1  -0.9	08110B	Ebb	200'	DREDGIN
O O O	281108-00-9-2 201108-00-9-5 81108-00-9-7 81108-08-9-4	2691579 818353 Even w dock of steamship	0635 0641 0945 0945	TOTAL WATER DEPTH (#)  9'  7'  TURBIDITY  TURBIDITY	DOWN-CURF SAMPLE DEPTH (ff) 2' 7' INCREASE: 2' 4' 5' INCREASE:	TURBIDITY (NTUs)  0.3  -0.1  -0.9	08110B	Ebb	200'	DREDGIN
OQ Co	281108-00-9-2 201108-00-9-5 81108-00-9-7 81108-08-9-4	2691579 818353 Even w dock of steamship	0635 0641 0945 0945	TOTAL WATER DEPTH (#)	DOWN-GURF SAMPLE DEPTH (ft)  5' 7' INCREASE:  LICENSES:  NCREASE:  NCREASE:	TURBIDITY (NTUs)  0.3  -0.1  -0.9	08110B	Ebb	200'	DREDGIN
OQ Co	281108-00-9-2 201108-00-9-5 81108-00-9-7 81108-08-9-4	2691579 818353 Even w dock of steamship	0635 0641 0945 0945	TOTAL WATER DEPTH (#)  9'  7'  TURBIDITY  TURBIDITY	DOWN-GURF SAMPLE DEPTH (ft)  5' 7' INCREASE:  LICENSES:  NCREASE:  NCREASE:	TURBIDITY (NTUs)  0.3  -0.1  -0.9	08110B	Ebb	200'	DREDGIN
OQ Co	281108-00-9-2 201108-00-9-5 81108-00-9-7 81108-08-9-4	2691579 818353 Even w dock of steamship	0635 0641 0945 0945	TOTAL WATER DEPTH (#)	DOWN-GURF SAMPLE DEPTH (ft)  5' 7' INCREASE:  LICENSES:  NCREASE:  NCREASE:	TURBIDITY (NTUs)  0.3  -0.1  -0.9	08110B	Ebb	200'	DREDGIN
00	281108-00-9-2 201108-00-9-5 81108-00-9-7 81108-08-9-4	2691579 818353 Even w dock of steamship	0635 0641 0945 0945	TOTAL WATER DEPTH (#)	DOWN-GURF SAMPLE DEPTH (ft)  5' 7' INCREASE:  LICENSES:  NCREASE:  NCREASE:	TURBIDITY (NTUs)  0.3  -0.1  -0.9	08110B	Ebb	200'	DREDGIN
OQ Co	281108-00-9-2 201108-00-9-5 81108-00-9-7 81108-08-9-4	2691579 818353 Even w dock of steamship	0635 0641 0945 0945	TOTAL WATER DEPTH (R)	DOWN-GURF SAMPLE DEPTH (ft) 2' 1' NCREASE: NCREASE:	TURBIDITY (NTUs)  0.3  -0.1  -0.9	08110B	Ebb	200'	DREDGIN
00	281108-00-9-2 201108-00-9-5 81108-00-9-7 81108-08-9-4	2691579 818353 Even w dock of steamship	0635 0641 0945 0945	TOTAL WATER DEPTH (#)	DOWN-GURF SAMPLE DEPTH (ft) 2' 1' NCREASE: NCREASE:	TURBIDITY (NTUs)  0.3  -0.1  -0.9	08110B	Ebb	200'	DREDGIN

DJECT:	Steamship Authority	<del>^</del>		·				Drec	
NUMBER:	6588.006	***************************************		****				٨	
NITORS: TALL T	<u> </u>							/ <b>A</b> \ _	
ATHER CONDITIONS:	Bainy + Storn	44 - 30	road ha	if of da	twas z	wh the	a close	3-78 <b>4</b>	<b>ex</b>
OR STORM EVENTS:	Rain / Hunde	r · Ua	nteauna		7.7166				Charty Research 19
DGE UPDATE: 7150	bad bescou							ě	
OF WATER QUALITY	MONITORING: DREE	GE / C	ISPOSAL)						
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				UP-CURRE	NT				
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (R)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM	NUMBER OF HOURS DREDGING
08-d1-00-1-2	Sofsow	1630	34'	21	14.3	T		LOCATION	
108-41-00-1-1	5E1-2000	1632	34'	'بها	-1.7	ଡି ମାଡର	PLOUD	75' 2	oohr of
08-41-00-1-3	<u> 201, 200</u>	11633	34'	30'				South of	
			AVERAGE :	TURBIDITY:	<u> </u>	J		2com	
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			AVERAGE	TURBIDITY:	<u> </u>	J			
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	l					]			
	L	L	AVERACE	TURBIDITY:			L	5.99	
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			AVERAGE 1	TURBIDITY:					
		<u>                                     </u>	AVERAGE	TURBIDITY:					
			AVERAGE	TURBIDITY:					
			AVERAGE AVERAGE						
			AVERAGE	TURBIDITY:				. DISTANCE FROM	NUMBER OF HOURS
Monitoring ID #	NORTHING/ EASTING	TIME	AVERAGE  TOTAL WATER DEPTH (ft)	DOWN-CURR SAMPLE DEPTH (#)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DREDGE/SILT	NUMBER OF HOURS DREDGING
08-01-100-9-2		1450	AVERAGE  TOTAL WATER DEPTH (ft)	DOWN-CURE SAMPLE DEPTH (#)	TURBIDITY (NTUs)	Γ		DREDGE/SILT	DREDGING
08-01-00-9-2		1450	AVERAGE  TOTAL WATER DEPTH (ft) 24' 24'	DOWN-CURE SAMPLE DEPTH (#)  2' 12'	TURBIDITY (NTUs)	Γ		ING'N	oohrofd
9-01-00-9-2			TOTAL WATER DEPTH (ft)	DOWN-CURE SAMPLE DEPTH (#)  2' 12'	TURBIDITY (NTUs)	Γ		ING'N	oohrofd
18-01-110-9-2		1450	AVERAGE  TOTAL WATER DEPTH (ft) 24' 24'	DOWN-CURE SAMPLE DEPTH (#)  2' 12'	TURBIDITY (NTUs)	Γ		DREDGE/SILT	oohrofd
08-01-00-9-2		1450	AVERAGE  TOTAL WATER DEPTH (ft) 24' 24'	DOWN-CURE SAMPLE DEPTH (#)  2' 12'	TURBIDITY (NTUs)	Γ		ING'N	oohrofd
18-01-110-9-2		1450	TOTAL WATER DEPTH (ft) 24' 24' TURBIDITY	DOWN-CURE SAMPLE DEPTH (ft) 2 ( 12 ' 12 CREASE.	TURBIDITY (NTUs)	Γ		ING'N	oohrofd
18-01-110-9-2		1450	AVERAGE  TOTAL WATER DEPTH (ft) 24' 24'	DOWN-CURE SAMPLE DEPTH (ft) 2 ( 12 ' 12 CREASE.	TURBIDITY (NTUs)	Γ		ING'N	oohrofd
08-01-00-9-2		1450	TOTAL WATER DEPTH (ft) 24' 24' TURBIDITY	DOWN-CURE SAMPLE DEPTH (ft) 2 ( 12 ' 12 CREASE.	TURBIDITY (NTUs)	Γ		ING'N	oohrofd
19-01-100-9-2		1450	TOTAL WATER DEPTH (ft) 24' 24' TURBIDITY	DOWN-CURE SAMPLE DEPTH (ft) 2 ( 12 ' 12 CREASE.	TURBIDITY (NTUs)	Γ		ING'N	oohrofd
9-01-10-9-2		1450	TURBIDITY	DOWN-CURE SAMPLE DEPTH (ft) 2: 12: 12: NCREASE:	TURBIDITY (NTUs)	Γ		ING'N	oohrofd
18-01-110-9-2		1450	TOTAL WATER DEPTH (ft) 24' 24' TURBIDITY	DOWN-CURE SAMPLE DEPTH (ft) 2: 12: 12: NCREASE:	TURBIDITY (NTUs)	Γ		ING'N	oohrofd
18-01-110-9-2		1450	TURBIDITY	DOWN-CURE SAMPLE DEPTH (ft) 2: 12: 12: NCREASE:	TURBIDITY (NTUs)	Γ		ING'N	oohrofd
18-01-110-9-2		1450	TURBIDITY	DOWN-CURE SAMPLE DEPTH (ft) 2: 12: 12: NCREASE:	TURBIDITY (NTUs)	Γ		ING'N	oohrofd
9-01-10-9-2		1450	TURBIDITY	DOWN-CURE SAMPLE DEPTH (ft) 2.1 12.2 INCREASE:	TURBIDITY (NTUs)	Γ		ING'N	oohrofd
18-01-110-9-2		1450	TURBIDITY	DOWN-CURE SAMPLE DEPTH (ft) 2.1 12.2 INCREASE:	TURBIDITY (NTUs)	Γ		ING'N	oohrofd
		1450	TURBIDITY	DOWN-CURE SAMPLE DEPTH (ft) 2.1 12.2 INCREASE:	TURBIDITY (NTUs)	Γ		ING'N	oohrofd
19-01-110-9-2		1450	TURBIDITY	DOWN-CURE SAMPLE DEPTH (ft) 21 12 INCREASE:	TURBIDITY (NTUs)	Γ		ING'N	oohrofd

PROJECT:	Steamship Authority							Drec	ige Water Cuality Monitoring Fo
JOB NUMBER: DATE:	6588.006 多 とはわち							٨	
	I FER MIS							/A\ _	
WEATHER CONDITIONS:	Mid 50'4 N	Am I	ight row	<u>a 111.66</u>	60'S PN	r chure	d vp		)ex
WIND: 5-15 ~ PRIOR STORM EVENTS:	3/10/68 2	احا واط	chis of r	'eu. 4° ¢	un all	nialet			Catha thail 11 C
DREDGE UPDATE:			1			<u></u>		\$	
TYPE OF WATER QUALITY	MONITORING: (DRED	GE// DI	SPOSAL						
				UP-CURRE	<u>NT</u>				·
Monitoring ID #	NORTHING/ EASTING	TIME	DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	Number of Hours Dredging
	2691661	11:20	\frac{2}{5}	3	-0.8 -0.6		E1	rooft	07
	818403	11.24	5	Ú	-0.6	N/A	Flored	20041	<i>u</i>
			AVERAGE 1	TURBIDITY:					
	2691661,	13 45	(2	2	-06				· · · · · · · · · · · · · · · · · · ·
·		1345	G	3	-0.2	MIA	Flood	200 ft	04
	818403	1348	AVERAGE 1	TIPRIDITY	~0.5				,
							<b>,</b>		
	- 2691661,	1570 1531	7	4	-0.7	N/A	Flood	200 Ft	06
	<del>5</del> 18403	5 33	7	-5	40-	MIM	Liener		
			AVERAGE	TURBIDITY:		]			
						Γ			
	4		,			ł		:	
			AVERAGE	TURBIDITY:				****	
			****						
	4	***************************************				1	1 1		
			AVERAGE	TURBIDITY:					
				DOWN-CURE	ENT	***************************************			
Monitoring 1D #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SR,T	NUMBER OF HOURS DREDGING
	2691933	1130	18	4	7.8	مرزير	Flood	200f+	69
	818091	11 34	18	عا	1.2	~/4	1 / Dices	LOUTT	20
		!	TURBIDITY	INCREASE:		1			
	269 1938,	13:30	20	2	0.7		1	()	.,
	818094	13:31	20	10	3.2	NIA	Flood	200 ft	04
·	1 2.02	13.35	2-0 TURBIDITY I	(g INCREASE:	4.9				
 							······································		
	2691938,	15 40 15 41	20	7	9.6	N/A	Flood	20094	06
	818094	रेंड् मेंप	20	18	0.2	7,7			
			TURBIDITY	INCREASE:	L	J			
	1					<u> </u>			······································
			TURBIDITY	INCREASE:	L	J			
							[		<u> </u>

TURBIDITY INCREASE:

ND:  THE PROPERTY OF WATER QUALITY IN	NA included	deck /	A Lemp	n (E) Spa	le of de	ck.	7886	A	DEX December 170
			TOTAL WATER	UP-CURRI		<del>(11</del> )		TYPE OF WOM &	
Monitoring ID #	NORTHING/EASTING	TIME	DEPTH (ft)	SAMPLE DEPTH (ft)	(NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM	NUMBER OF HOURS DREDGING
808-UN-1- 800-00-1-4	818432	० हु पूर्व ० हु पूर्व	<b>₩</b>	TURBIDITY:	-1.3 -1.3	081808	thoop	100'	06
	ablas as a					I			
1808-00-1- 1808-00-1-	2042192.80 2017720,89	1050	22	20	33.6	08180B	ebb	(50)	00
		1	AVERAGE	TURBIDITY:		J			
	२७१२।५३ <u>८।७७०।</u>	12.55 12.51 12.50	10'	3,	7.35	०२।७०	<b>E</b> 66	200	०५
			AVERAGE	TURBIDITY:		]			
1 DANGS. N7	2691690	1528 1529	8'-	4.	4.2 5.0 8.5	091908	Flood	150'	97
	<u>818406</u>	1520	<u> </u>	<u> </u>	<u> </u>		L		
	818406	1530	AVERAGE	TURBIDITY:					
31808-09-1-6 31808-09-1-2 219-69-09-1-3	818406 2691690 818410	1530 134 136 1731	AVERAGE AVERAGE	2' 3 <b>8/</b> 4 <b>5</b> '	0.8	૦અઝ૦૬	Flood	150'	09
31808-09-1-6 31808-09-1-2 219-69-09-1-3	2691690	734 1736 1737	AVERAGE	JOWN-CURI	O-8 I.P O-7 RENT	CPS FILE NAME		150'	09  NUMBER OF HOURS DREDGING
Monitoring ID #	269 1690 818410 Northing/Easting	113.4 113.6 1173.1	AVERAGE	DOWN-CURI SAMPLE DEPTH (ft)	C-S 1.0 0.7 0.7 RENT TURBIDITY (NTUe)	GPS FILE NAME		150'	NUMBER OF HOURS
81808-81-6 81808-094-2 1008-09-1-3 1008-09-1-4	269 1690 818410 NORTHING! EASTING	134 136 1731	AVERAGE  TOTAL WAYER  DEPTH (#)	DOWN-CURI	CONTROL TURBIOTY (NTUe)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SILT	NUMBER OF HOURS DREDGING
B  COV-09-1- 2 210 63-09-1- 3 1009-09-1- 4 Monitoring ID #	269 16 9 0 818 4 1 0 NORTHING! EASTING 2 249 2 810	TIME  CR20 06.25 08.30	AVERAGE  TOTAL WAYER  DEPTH (#)	DOWN-CURI SAMPLE DEPTH (ft) INCREASE:	O-8 1.0 0.7 PRENT TURBIDITY (NTUe)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SILT	NUMBER OF HOURS DREDGING
Monitoring ID #  318.08-00-9-1-9  Monitoring ID #  318.08-00-9-1-9  318.08-00-9-1-9	269 16 9 0 818 4 1 0 NORTHING! EASTING 2 249 2 810	TIME  CR20 06.25 08.30	TOTAL WAYER DEPTH (R) TURBIDITY	DOWN-CURI SAMPLE DEPTH (ft) INCREASE:	D-8 1.0 0.7 PRENT TURBIDITY (NTUe) -\.1	GPS FILE NAME	TIDAL STAGE	DIST ANGE FROM DREDGE/SILT	NUMBER OF HOURS DREDGING
Monitoring ID #  318 08 - 09 - 1 - 3  1009 - 09 - 1 - 4  Monitoring ID #  318 08 - 00 - 9 - 1  1808 - 00 - 9 - 1  1808 - 00 - 9 - 1  1808 - 00 - 9 - 1	269 16 9 0 818 4 1 0 NORTHING! EASTING 2 249 2 810	134 134 1731 731 731	TOTAL WAYER DEPTH (R) TURBIDITY	DOWN-CURI SAMPLE DEPTH (ft) INCREASE: INCREASE: INCREASE:	O-8 1.0 0.7 PRENT TURBIDITY (NTUe)	GPS FILE NAME	TIDAL STAGE Fload	DIST ANGE FROM DREDGE/SILT	NUMBER OF HOURS DREDGING
Monitoring ID #  218 08 - 09 - 1 - 4  Monitoring ID #  218 08 - 00 - 9 - 1  218 08 - 00 - 9 - 1  218 08 - 00 - 9 - 1  218 08 - 00 - 9 - 1  218 08 - 00 - 9 - 1  218 08 - 00 - 9 - 1  218 08 - 00 - 9 - 1  218 08 - 00 - 9 - 1  218 08 - 00 - 9 - 1  218 08 - 00 - 9 - 1  218 08 - 00 - 9 - 1  218 08 - 00 - 9 - 1  218 08 - 00 - 9 - 1  218 08 - 00 - 9 - 1  218 08 - 00 - 9 - 1	269 16 9 0 818 4 1 0 NORTHING! EASTING 2 249 269	134 134 1731 721 721 721 1046 1046 1048	AVERAGE  TOTAL WAYER DEPTH (M)  TURBIDITY  TURBIDITY  TURBIDITY	DOWN-CURI SAMPLE DEPTH (tt)  INCREASE:  INCREASE:	0.8 1.0 0.7 0.7 RENT TURBUTY (NTUe) -1.4 -1.4 -1.5	GPS FILE NAME OBJECTS	TIDAL STAGE Fload	DISTANCE FROM DREDGE/SILT CLUX ANN 2,000	NUMBER OF HOURS DREDGING
Monitoring ID #  218.08-09-1-3 10.09-09-1-4  Monitoring ID #  218.08-00-9-1 18.08-00-9-1 18.08-00-9-1 18.08-00-9-1 18.08-00-9-1 18.08-00-9-1 18.08-00-9-1 18.08-00-9-1 18.08-00-9-1 18.08-00-9-1 18.08-00-9-1 18.08-00-9-1	269 16 9 0 818 4 1 0 NORTHING! EASTING 249 269	134 134 1731 721 721 721 1046 1046 1048	AVERAGE  TOTAL WAYER DEPTH (#)  TURBIDITY  TURBIDITY  TURBIDITY	DOWN-CURI SAMPLE DEPTH (tt)  INCREASE:  INCREASE:	0.8 1.0 0.7 0.7 RENT TURBUTY (NTUe) -1.4 -1.4 -1.5	GPS FILE NAME OBJECTS	TIDAL STAGE Fload	DISTANCE FROM DREDGE/SILT CLUX ANN 2,000	NUMBER OF HOURS DREDGING
Monitoring ID #  \$18.08-09-1-3  110.09-09-1-4  Monitoring ID #  \$18.08-00-9-1  110.09-01-9-1  110.09-01-9-1  110.09-01-9-1	269 16 9 0 818 4 1 0 NORTHING! EASTING 2 249 269	134 134 1731 731 731	AVERAGE  TOTAL WAYER DEPTH (m)  TURBIDITY  TURBIDITY  TURBIDITY	DOWN-CURI SAMPLE DEPTH (tt)  INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREASE: INCREAS	0.8 1.0 0.7 0.7 RENT TURBUTY (NTUe) (.1, 4,	GPS FILE NAME OBJECTS OBJECTS	Flood Flood Ebb	DISTANCE FROM DREDGE/SILT CLUXANN 2,000	NUMBER OF HOURS DREDGING

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RIOR STORM EVENTS: REDGE UPDATE: YPE OF WATER QUALIT	Y MONITORING DRE	DGE) / DI	SPOSAL				P		ericina de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición del composición de la composición de la composición del composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la co
Monitoring IO #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	UP-CURRE SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAMI	E TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
\$2\08-00- \$2\08-00- \$2\08-60-	2641654	950 951 955	7	2	0.9 0.9	AU	fload	150	b
			AVERAGE	TURBIDITY:					
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			AVERAGE	TURBIDITY:		J			
	- 2641892 - 588221	15100	19	<u> </u>	1:5	NIA	Ell	1759+	5
		•		TURBIDITY:					
	261/7// 818033	17,33	2! ./	1/2	0.0	NA	566	175'	67
		11 1 2 /	AVERAGE	TURBIOTTY:	7.4		<u> </u>		·····
					·	1	1		
	4			<u></u>		4			
		,	AVERAGE	TURBIDITY:					
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER	DOWN-CURI	TURBIDITY	GPS FILE NAM	E TIDAL STAGE	DISTANCE FROM DREGGESSET	NUMBER OF HOURS
Monitoring ID #	2611940	1019	TOTAL WATES	DOWN-CURI	TURBIDITY (NTUs)	N ₂	E TIDAL STAGE	DREDGE/SILT	NUMBER OF HOURS DREDGING
Monitoring ID #		[[0]5	TOTAL WATES	DOWN-CURI R SAMPLE DEPTH (ff)	TURBIDITY (NTUs)	GPS FILE NAMI	T	DREDGE/SILT	DREDGING
Monitoring ID #	2611940	1250	TOTAL WATER DEPTH (ft)	DOWN-CURI R SAMPLE DEPTH (H) 2 P INCREASE:	TURBIDITY (NTUs)	N ₂	T	DREDGE/SILT	DREDGING
Monitoring ID #	2691940 818101 2691785	10/0	TOTAL WATER DEPTH (ft)	DOWN-CURI R SAMPLE DEPTH (H)	TURBIDITY (NTUs)  6. 1  6. 1  7. 2	4	Flood	DREDGE/SILT	DREDGING
Monitoring ID #	2691940 818101 2691735 818353	1019 17 20 1250 52 53	TOTAL WATER DEPTH (R)  TURBIDITY  TURBIDITY	DOWN-CURI R SAMPLE DEPTH (ft) 2 INCREASE:	TURBIDITY (NTUs)  6. 1  6. 1  7. 2	4	Flood	DREDGE/SILT	DREDGING
Monitoring ID #	2691940 818101 2691785	1250 1250 1250 1250	TOTAL WATER DEPTH (R)  TURBIDITY  TURBIDITY	DOWN-CURI R SAMPLE DEPTH (H) 2 INCREASE: INCREASE:	TURBIDITY (NTUs)  6. 1  0. 1  0. 0  1. 1	N/A	Flood	175 St	DREDGING
Monitoring ID #	2691940 818101 2691735 818353	1019 17 20 1250 52 53	TOTAL WATES DEPTH (ft)  TURBIDITY  TURBIDITY  TURBIDITY	DOWN-CURI R SAMPLE DEPTH (H)  VINCREASE: VINCREASE: VINCREASE: VINCREASE: VINCREASE: VINCREASE: VINCREASE: VINCREASE: VINCREASE: VINCREASE: VINCREASE:	TURBIDITY (NTUs)  6. 1  0. 1  0. 0  1. 1	N/A	Flood	175 St	DREDGING
Monitoring ID #	2691940 818101 2691735 818353 2691764 8187473	1250 1250 1250 14:50 14:52 NISS	TOTAL WATES DEPTH (ft)  TURBIDITY  TURBIDITY  TURBIDITY	DOWN-CURI R SAMPLE DEPTH (H) PINCREASE: PINCREASE: VINCREASE:	1. NBIDITY (NTUs)  6. 1  6. 1  7. 2  7. 3  1. 4  7. 3  7. 7  7. 8	N/A N/A	Flood Fob	ITS St IDOST	DREDGING  3
Monitoring ID #	2691940 818101 2691735 818353 2691764 8187473	1250 1250 1250 14:50 14:52 NISS	TOTAL WATES DEPTH (ft)  TURBIDITY  TURBIDITY  TURBIDITY	DOWN-CURI R SAMPLE DEPTH (H)  VINCREASE: VINCREASE: VINCREASE: VINCREASE: VINCREASE: VINCREASE: VINCREASE: VINCREASE: VINCREASE: VINCREASE: VINCREASE:	1. NBIDITY (NTUs)  6. 1  6. 1  7. 2  7. 3  1. 4  7. 3  7. 7  7. 8	N/A N/A	Flood Fob	ITS St IDOST	DREDGING  3

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PROJECT: JOB NUMBER:	Steamship Authority 6588.006			······································	······	***************************************		ă.	
DATE: 8/21		A						Λ	
MONITORS:								/A\ _	
WEATHER CONDITIONS:								//\\F	ж
WND:		,							Franciscoping (1.)
PRIOR STORM EVENTS:									
DREDGE UPDATE:	LICHTONIA BOTE	or 7/8	enocal .						
TYPE OF WATER QUALITY	MONITORING: DRED	GE / D	SPOSAL )						
		Maria.							i
		·····		UP-CURRE	NT				
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Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTU»)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM	NUMBER OF HOURS DREDGING
	- 0 ( m a /)	16:10	2.2	27	7.8			LOCATION	
*	2696390	14:19		10	5.3	NA	265	200	6
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				DOWN-CURE	SENI				
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER	SAMPLE	TURBIDITY	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SILT	NUMBER OF HOURS
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	13667555	1704	DEPTH (#)	DEPTH (ft)	(NTUs)	,	,	PURTAIN	DREDGING
	2515722	707	<del>  ?                                   </del>	<u> </u>	7.3	NA	26	ايسر	1.
	814 552	ļ		16 31	4.5	/* <i>I</i> '	1	150	6
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			TURBIDITY	NCREASE:		J			
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			TURBIDITY	NCREASE:	<del> </del>		<u> </u>		
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RIOR STORM EVEN REDGE UPDATE: (PE OF WATER QUA		REDGE	DISPOSAL						<b>Pex</b>
	ve 09:44		7					<del>Managa</del>	
Hia	NO 04:13	16:51	•						
				UP-CURR	ENI	***************************************		<u>.                                    </u>	
Monitoring ID #	northing/ Easting	TME	TOTAL WATER DEPTH (M)	SAMPLE DEPTH (ft)	TURBIOITY (NTUs)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	NUMBER OF HOUR DREDGING
	2691931 818054	0700 0702 0704	LANIS IS AVERAGE	4	0.6 8.5 11,2	N/A	ELL	180f+	00
	5.0.447	0702	11	2	11.1.	, T	l 1	***************************************	
	2691947	0101	AVERAGE	13	16.6	4/4	Fib	180ft	67
	ALAU.E4	11:05	5	2	1 5./-		T		
	2691654 818416	11:08	<u> </u>	4 2	3.3	N/A	Flood	150ft	04
	<del>1</del>	15.00	AVERAGE	TURBIDITY:	1 2.5	J	T		***************************************
	GPS	13:62	4	4	23	NJA	flood	180ft	06
		<u> </u>	AVERAGE	TURBIDITY:	1	]	1		
				*****					
			AVERAGE	TURBIDITY:	1	J			
	·	<u></u>		/					
		······································		DOWN-CUR	RENT		***********************		······································
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER	7	TURBIDITY (NTU ₆ )	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SILT	HUMBER OF HOUR DREDGING
	2691654	0710	<i>b</i> /	2	0.4	NIA	es.	150ft	00
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	2641667	0855	5	2	0.3	T	Ι	10001	
	818672	0427		3	83	N/4	Fbb	175ft	02
			TURBIDITY	INCREASE:		]			
	2691950 818021	کانال طابا	18	1	4.1	N/A	Flood	1754	04
	A STOCK	1 1111	TURBIDITY	INCREASE:	6.8		1.1	Canaca de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina della	
	L PS	13.76	-77	7	12.5	מלעו	fload	/00	<b>0</b> 6
	- down	13:16	TURBIDITY	INCREASE:	6.0	777			
							1	. In the supplement	
	1								
			TURBIDITY	INCREASE:	<u> </u>	J			

* 13:20 sample (up-current) taken at blocand white mooning bal 2008 WO MONOTING FORM per 5. Side of pier. GPS battery dead \$ 13:20 sample (down-current) taken at South corner of 5. side of pier

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PROJECT:	SS Authority
JOB NUMBER:	******* 6588.006.03
DATE: 0/28 08	
MONITORS: TALL	
WEATHER CONDITIONS:	Sunny track clouds, clear
WIND: CLOCK COLY	
PRIOR STORM EVENTS:	UIA .
DREDGE UPDATE: AUS	de of pier in marining and (3) side of pier in atternoor
TYPE OF WATER QUALITY	MONITORING: PREDGE / DISPOSAL



re-dredge UP-CURRENT TYPE OF WOM & DISTANCE FROM TOTAL WATER DEPTH (ft) SAMPLE DEPTH (R) TURBIDITY (NTUs) NUMBER OF HOURS GPS FILE NAME TIDAL STAGE Monitoring ID # NORTHING/ EASTING TIME 061808 - 00 - 1 - B 0730 2692056 200' NA Ebb Ochrs 817 602 - 00 -1 -16 AVERAGE TURBIDITY: 082 000-02-1-2 11- 02-1-8 11-02-1-17 19' 2692034 0930 5.0 200' 17 0921 02 hrs N/A EPP 817757 AVERAGE TURBIDITY: 4:40 262808-04-1-2 3642088 11 -04-1- P 200' EDB 04 hrs 817844 - 04-1-15 AVERAGE TURBIDITY: 081808-08-1-2 1535 1536 1537 8.3 0.5 201 2691717 200' 18 oo hrs NA Flood 817941 AVERAGE TURBIDITY: AVERAGE TURBIDITY:

					DOWN-CURE	RENT				
dre	Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUe)	GPS FILE NAM	E TIDAL STAGE	DISTANCE FROM DREDGE/SILT CURTAIN	NUMBER OF HOURS DREDGING
W	11 - 00-4-8	269 1882	0740	וחי.	8'	4.7	NA	EPP	200'	
->	" - 00 · q - 15	818010	6742		ıs,	2.8	1			ov hrs
				TURBIDITY	INCREASE:	<u> </u>				
	081906-07-4- 5-	2691830	7510	21'	2.	5.6			200'	<b></b>
	C 102-7-6	_	0136	1	(6)	6.3	W/A	266	<b>200</b> ,	02 hr
	11 -02-4-19	817921	D137		14,	ه.7	1			
[				TURBIDITY	INCREASE:	<u> </u>	]			
	021606-04-1-2	2691947	11:35	18.	<u> </u>	4.4				*
	11 " OV " " "   C	818022	11:36	<del>       </del>	- X	\$.7	MA	Ebb	100	oy hrs
			111111	TURBIDITY	NCREASE:	7.2				
							<u>.                                    </u>			
- 1	CB18 40-00-7 - 2	2691985	15:30	13	<u> </u>	4.3			_ ,	
ł		816616	15:30	<del>  ↓  </del>	8'	7.3	W/A	Flood	200'	08 hr
ŀ			112 - 30	<del> </del>		7,77				
l				TURBIDITY I	NUKEASE:	l	;			
										· · · · · · · · · · · · · · · · · · ·
}			ļ	<del> </del>				]		
ł				TURBIDITY	NODE ACE.			IL	L	

^{*} Turbidity Incresse = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT: Steamship Authority	Dredge Water Quality Monitoring Fo
JOB NUMBER:	<b>A</b>
DATE: 8 28 88	
MONITORS: TAL + QB	A market
WEATHER CONDITIONS: SUMMY TYPICA WHITE CLOUDS (CALM) (CALM)	
wind: Calm - 5 m.ch.	Companies, LLC
PRIOR STORM EVENTS:	
DREDGE UPDATE: DISOSSAL DE LAGUE (LIVAL	
TYPE OF WATER QUALITY MONITORING: DREDGE / DISPUSA	

				UP-CURRE	NT				
	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (R)	SAMPLE DEPTH (ft)	TURBIDITY (NYUs)	GPS FILE NAM	E TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	NUMBER OF HOUR! DREDGING
1808-01-00-1-2	2696054 615005	0825 0820	36'	<u> </u>	4.5	NA	ELL	200'	oohrs
11 - 25	#13 Q 0 3	OBOT	AVERAGE T	Z.B.	-61.1		. 1		
						-	1		
		·	AVERAGE TO	URBIDITY:	· · · · · · · · · · · · · · · · · · ·				
			AVERAGE T	URBIDITY:			<u>.l</u>		
	A control of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s								
	·····		AVERAGE T	IRBIDITY.					
	· · · · · · · · · · · · · · · · · · ·	T		M.1200.131.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	I		<u> </u>		
***************************************									
		1	AVERAGE TO	IRRITITY.		1	. I		L

				DOWN-CURE	RENT				
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (R)	SAMPLE DEPTH (ft)	TURBIDITY (NTU*)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SILT CURTAIN	NUMBER OF HOURS DREDGING
281604 - DI-00-9-2	2445704	0853	32'	2'	2.9				
11 20	2695704 BI4 961	0854	<del>  L  </del>	30'	2.6	NA	ELL	200'	oohrs
		10/035	TURBIDITY I		22.4		<u> </u>		<u> </u>
				INVINDATE		J			
			T			Ĭ			
		<b>—</b> —	<u> </u>	4 11		1	!!		
						1	}		
			TURBIDITY I	NCREASE:	<b>†</b>	1	I		
			**************************************		A				
							l I		
			<u> </u>		ļ		<u> </u>		
			TURBIDITY I	NCREASE:	L	J			
		7	1 1				· · · · · · · · · · · · · · · · · · ·		
					·····	1			
		}	†		<u> </u>	1			
			TURBIDITY II	NCREASE:			L		
					-				
									W. Char
		<u> </u>							
			TURBIDITY I	NCREASE:	1	I			

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

	PROJECT:	Steamship Authority							Dres	lge Water Quality Monitoring Fi
	DATE: 9300	6588.00	6				······································		·	
	MONITORS: JM+ A	18				, ,,,,,			<b>/</b>	
	WEATHER CONDITIONS:	SUMMY, COOL	Clar:	FILS W	70'F		***************************************			<b>YA</b>
		(no) bx(2573	_					·		CHANA BOX 10 O
	PRIOR STORM EVENTS: DREDGE UPDATE:	NIA - demin	MADERIA	<u>~g</u>					. /	
	TYPE OF WATER QUALIT	Y MONITORING: DRE	DGE ) / D	ISPOSAL	····				•	
	TIDES:	Hi: 1130)								
	11000	· · · · · · · · · · · · · · · · · · ·								
		lo:								
				· <b>v</b> ·-	UP-CURRE	NT			•	·········
we dred	ne.				***************************************				TYPE OF WOM &	4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
WRM	Monitoring ID #	NORTHING! EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM	NUMBER OF HOURS DREDGING
(5)	090308-00-1-2	2691648	0900	7	<u>a′</u>	0.9				
+ pier	090308-00-1-	2 818412	0402	<del>  </del>	4,	1:0	040308	Flood	200	ookrs
dridge.	<u>070.500-00+1-</u>	4 0.0 112	JUTUE	_AVERAGE	TURBIDITY:			I		
J		1 - A15 B0				7				***
	040308-02-1-2		1125	9'	2'	0.8				oz hrs
	09-308-02-1	918439	1126	<del>                                     </del>	4:	1.2	D90308	Fload	200'	, , , , , , , , , , , , , , , , , , ,
	07-03-6-62-1-		<u> 1127</u>	AVERAGE	TURBIDITY:		·	L		
								·		
	010308-04-1-2	2641955	1325	19,	<del></del>	1.2	1.114	21.1		
	090308-04-1-	₹ 1806B	1358 1354		16	5.6	NA	Elb	200'	04 hrs
		,	11 10 17 T	AVERAGE:	TURBIDITY:			<del></del>		
			T	т		T			, , , , , , , , , , , , , , , , , , ,	
	090308-07-1-	ישר" ך	17					Ebb		A7 h
	090308-07-1-	818	,				NA		2*0	07 hrs
				AVERAGE *	TURBIDITY:	<u> </u>	J			
		1		T		Γ	T	<u> </u>		
							]			
				AVERAGE 1	TI IDDIDITY-		<u> </u>			
				LATIONSE	IONGIDITT.					
			***************************************					~		
		·				·v		_		
					DOWN-CURE	RENT				
		NAMES OF STREET STREET, STREET STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,	TYME	TOTAL WATER	SAMPLE	TURBIOTY		Wall by Mar 4 (1987)	DISTANCE FROM	NUMBER OF HOURS
1-deedge		NORTHING/ EASTING		DEPTH (ff)	DEPTH (ft)	(aUTM)	GPS FILE NAME	INAL STAGE	DREDGE/SILT	DREDGING
Mem	010306-00-1- 010306-00-1-	<u> </u>	0911	80.		5.3 6.4		Flood		
ofdredge	010300- 00- 1-	\$ 018 059	0913	J	15/	40	04.306	TIOUCI	200'	ookrs
•				TURBIONY	INCREASE:					
			1,,,,,		21	T	T	T		
	090909-02-9-2 090308-02-9-		1132	12	2'	71.0	010308	Flood	200'	02 hrs
	040303-07-9-	818044	1133 1134	<b>+</b>	761	15.6	-10300	Lines	270	OL NIS
				TURBIDITY	NCREASE:					
	070308-04-9-7	U 20016UU	11344	77	71	7.1	T			
	09030 <i>8-04-9-</i>	Ll	1344		4,	1.2	NA	thb	200'	others
	070308-04-9-6	818404	1346	TURBIDITY I	L/	1.5		200		- 14/4 /
				LIONBIDITY	NUKEASE:	L	J			
	010308-07-9-	2 569						_, , ]		***************************************
	<u>090308-07-9-</u> 090308-07-9-	818		<del> </del>			NA	200	′هه2	07 hrs
	K Jane of Lail.		<u> </u>	TURBIDITY	NCREASE:					
			·				- -	<del>-</del>	······································	
							-			
			<u></u>	M			1			
•				TURBIDITY I	NCREASE:	l	1			
	I									

LOW = 10:67    Low = 10:67   Low = 10:67   Low = 10:671   Low = 10		JOB NUMBER: (C) DATE: 8 27   MONITORS: JAM WEATHER CONDIT WIND: 10 M 0   PRIOR STORM EVE DREDGE UPDATE: TYPE OF WATER C	OB TONS: I	smny. Hot collealm one osal of Jou contoring: the	. lomp	oh wine	<u> </u>		54		A	edge Water Quality Monitoring in the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common
- CUMP   Monitoring ID #   MORTHMO EASTING   TIME   TOTAL WITER   SAME   TUMENTY   WITER   WITER   MONITORING   TOTAL STAND   TO		11000.		-								
- CUMD  Monitoring ID # NORTHWISE PASSING TIME TOTAL WITH SAME TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO A STATE CONTINUE TO	-											
Moniforing   D   Morrisho   East   Detrit   Operation   Operatio											TYPE OF WOM &	****************************
Monitoring ID #   MORTHROFEASTHO   THE   TOTAL WATER   MARRIED TY   MORTHROFEASTHO   13:33   12'   2'   3:3   12'   2'   3:3   12'   2'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   12'   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3   3:3	dwh					DEPTH (ft)	DEPTH (ft)	(NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM	DREDGING
Monitoring ID #   MORTHHOU EASTING   TIME   TOTAL WATER SAMPLE   TURBUTTY   TOPOTON   OPS FEE NAME TOAL STADE   DISTANCE FROM   DISTANCE FRO		082700-DI-	1-15		13:30		30'	2.3	NIA	Flood	200'	oonrs - ol of J.V.
Monitoring ID #   NORTHING EASTING   15:35   12'   2'   3.5   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35   15:35	am					AVERAGE	TURBIDITY:					
AVERAGE TURBIDITY.  AVERAGE TURBIDITY.  AVERAGE TURBIDITY.  AVERAGE TURBIDITY.  DOWN-CURRENT  TOTAL WATER SAME TO NORTHING EASTING TIME OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f) OFFTH (f)	M	082708-DI •	1. 19		(5:47 (3:48 (3:5°	J	36'	2.3	NIA	Frood	150'	Post dump No.V. T.V.
AVERAGE TURBIDITY:						LAVERAGE	TURBIDITY:					
AVERAGE TURBIDITY:	ĺ				harmon scarnessamones	MONTH CONTRACTOR WATER THE	_	# ####################################	-			
AVERAGE TURBIDITY:						AVERAGE	TURRIDITY		1			
AVERAGE TURBIDITY:	ļ		—				T	·				T
Monitoring ID # NORTHING/EASTING TIME TOTAL WATER SAMPLE DEPTH (ft) DEPTH (ft) DEPTH (ft) OPS FILE MAME TIDAL STAGE DISTANCE FROM DISEOGRAL COLUMN DEPTH (ft) DEPTH (ft) DEPTH (ft) DEPTH (ft) OPS FILE MAME TIDAL STAGE DISTANCE FROM DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COLUMN DISEOGRAL COL							<b> </b>		_			
Monitoring   D #   Northing Easting   Time   TOTAL WATER   SAMPLE   TURBIDITY   OPS FILE NAME TIDAL STAGE   FROM   DEEDGELT   DREDGING   TOTAL WATER   SAMPLE   TURBIDITY   OPS FILE NAME TIDAL STAGE   DISTANCE FROM   DREDGING   DREDGING   TOTAL WATER   SAMPLE   TURBIDITY   OPS FILE NAME TIDAL STAGE   DISTANCE FROM   DREDGING   DREDGING   TOTAL WATER   DREDGING   DREDGING   TOTAL WATER   DREDGING   DREDGING   TOTAL WATER   DREDGING	ł					AVERAGE	TURBIDITY:			<u> </u>	<del></del>	
Montoring ID #   NORTHING/EASTING   TIME   TOTAL WATER   SAMPLE   TURBIDITY   OPS FILE NAME TIDAL STAGE   DISTANCE FROM   DREDGING	ł				Ţ		ļ					
Monitoring   D #   NORTHING! EASTING   TIME   TOTAL WATER   SAMPLE   TURBIDITY   OPS FILE NAME TIDAL STAGE   DISTANCE FROM   DEPTH (FI)   OPS FILE NAME TIDAL STAGE   DISTANCE FROM   DISTANCE FROM   DEPTH (FI)   OPS FILE NAME TIDAL STAGE   DISTANCE FROM									1			
Monitoring   D #   Morthing Easting   Time   Total water   Depth (ft)   Depth (ft	Ì									1 .		
062109-01-9-5 092709-D1-9-10 082708-D1-9-2 082708-D1-9-2 092709-D1-9-17 082708-D1-9-17 082708-D1				## ## ## ## ## ## ## ## ## ## ## ## ##		AVERAGE	TURBIDITY:			1		
082708-DI-9-2 082708-DI-9-2 082708-DI-9-2 082708-DI-9-3 814984 13:42 13:42 17' 17' 17' 17' 17' 17' 17' 17' 18' 17' 18' 17' 18' 17' 18' 18' 18' 19' 19' 19' 19' 19' 19' 19' 19' 19' 19		<del>.</del>				TOTAL WATER DEPTH (ft)	DOWN-CURP SAMPLE DEPTH (H)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DREDGE/SILT	NUMBER OF HOURS DREDGING
082708-DI-9-2 2696194 13:40 19' 2' 9.8 092708-DI-9-17 814984 13:45 17' 9.1 TURBIDITY INCREASE:  TURBIDITY INCREASE:	- 1	085008-DI-	1-2	2696320	13:33	TOTAL WATER DEPTH (ft)	DOWN-CURF SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	1		DREDGE/SILT CURTAIN	DI - de
TURBIDITY INCREASE:  TURBIDITY INCREASE:	. ' 1	085008-DI-	1-2	2696320	13:33	TOTAL WATER DEPTH (#)	DOWN-CURF	TURBIDITY (NTUs)	1		DREDGE/SILT CURTAIN	DREDGING
TURBIDITY INCREASE:		0 82 <b>76</b> 8-D(- 082108-D(- 082708-D(-	9-5	2696320 814870 2696194	13:33 (5:35 (3:37	TOTAL WATER DEPTH (ft)	DOWN-CURP SAMPLE DEPTH (ft) 2' 5' 10' INCREASE:	TURBIDITY (NTUs)  3.3.4.0 4.0	NA	Flood	DREDGEISILT CURTAIN 200'	DI- de de FJ.V.
	-	0 82708-DI-6 082708-DI- 082708-DI-6	9-2 9-5 -9-10	2696320 814870 2696194	13:33 (5:35 (3:37 (3:37	TOTAL WATER DEPTH (ft)  12  TURBIDITY	DOWN-CURP  SAMPLE DEPTH (ft)  2' 5' 10' INCREASE:	TURNITY (NTUs)  3.2  4.0  4.0  4.8	NA	Flood	DREDGEISILT CURTAIN 200'	DI - de
		0 82708-DI-6 082708-DI- 082708-DI-6	9-2 9-5 -9-10	2696320 814870 2696194	13:33 (5:35 (3:37 (3:37	TOTAL WATER DEPTH (ft)  12  TURBIDITY	DOWN-CURP  SAMPLE DEPTH (ft)  2' 5' 10' INCREASE:	TURNITY (NTUs)  3.2  4.0  4.0  4.8	NA	Flood	DREDGEISILT CURTAIN 200'	DI- de de FJ.V.
TURBIDITY INCREASE;		0 82708-DI-6 082708-DI- 082708-DI-6	9-2 9-5 -9-10	2696320 814870 2696194	13:33 (5:35 (3:37 (3:37	TOTAL WATER DEPTH (ft)  12  TURBIDITY	DOWN-CURP  SAMPLE DEPTH (ft)  2' 5' 10' INCREASE:	TURNITY (NTUs)  3.2  4.0  4.0  4.8	NA	Flood	DREDGEISILT CURTAIN 200'	DI- de de FJ.V.
TURBIDITY INCREASE;		0 82708-DI-6 082708-DI- 082708-DI-6	9-2 9-5 -9-10	2696320 814870 2696194	13:33 (5:35 (3:37 (3:37	TOTAL WATER DEPTH (ft)  12  TURBIDITY  TURBIDITY	DOWN-CURP SAMPLE DEPTH (ft)  2' 10' INCREASE:  2' 1' 1' INCREASE:	TURNITY (NTUs)  3.2  4.0  4.0  4.8	NA	Flood	DREDGEISILT CURTAIN 200'	DI- de de FJ.V.
TURBIDITY INCREASE;		0 82708-DI-6 082708-DI- 082708-DI-6	9-2 9-5 -9-10	2696320 814870 2696194	13:33 (5:35 (3:37 (3:37	TOTAL WATER DEPTH (ft)  12  TURBIDITY  TURBIDITY	DOWN-CURP SAMPLE DEPTH (ft)  2' 10' INCREASE:  2' 1' 1' INCREASE:	TURNITY (NTUs)  3.2  4.0  4.0  4.8	NA	Flood	DREDGEISILT CURTAIN 200'	DI- de de FJ.V.
		0 82708-DI-6 082708-DI- 082708-DI-6	9-2 9-5 -9-10	2696320 814870 2696194	13:33 (5:35 (3:37 (3:37	TOTAL WATER DEPTH (ft)  12  TURBIDITY  TURBIDITY	DOWN-CURP SAMPLE DEPTH (ft)  2' 10' INCREASE:  2' 1' 1' INCREASE:	TURNITY (NTUs)  3.2  4.0  4.0  4.8	NA	Flood	DREDGEISILT CURTAIN 200'	DI- de de FJ.V.
		0 82708-DI-6 082708-DI- 082708-DI-6	9-2 9-5 -9-10	2696320 814870 2696194	13:33 (5:35 (3:37 (3:37	TOTAL WATER DEPTH (#)  12  TURBIDITY  TURBIDITY  TURBIDITY	DOWN-CURP SAMPLE DEPTH (ft) 2' 5' 10' INCREASE: INCREASE:	TURNITY (NTUs)  3.2  4.0  4.0  4.8	NA	Flood	DREDGEISILT CURTAIN 200'	DI- de de FJ.V.
		0 82708-DI-6 082708-DI- 082708-DI-6	9-2 9-5 -9-10	2696320 814870 2696194	13:33 (5:35 (3:37 (3:37	TOTAL WATER DEPTH (#)  12  TURBIDITY  TURBIDITY  TURBIDITY	DOWN-CURP SAMPLE DEPTH (ft) 2' 5' 10' INCREASE: INCREASE:	TURNITY (NTUs)  3.2  4.0  4.0  4.8	NA	Flood	DREDGEISILT CURTAIN 200'	DI- de de FJ.V.
TURBIDITY INCREASE:		0 82708-DI-6 082708-DI- 082708-DI-6	9-2 9-5 -9-10	2696320 814870 2696194	13:33 (5:35 (3:37 (3:37	TOTAL WATER DEPTH (#)  12  TURBIDITY  TURBIDITY  TURBIDITY	DOWN-CURP SAMPLE DEPTH (ft) 2' 5' 10' INCREASE: INCREASE:	TURNITY (NTUs)  3.2  4.0  4.0  4.8	NA	Flood	DREDGEISILT CURTAIN 200'	DI- de de FJ.V.

MONITORS: TWA + PANEL OF THE PANEL OF WATER QUALITY	NIA MONITORING: DREE	m, 20	ISPOSAL					A	<b>pex</b>
	**************************************			UP-CURRE	NT				
Monitoring ID #	NORTHING/ EASTING	TIME	DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAM	AE, TEDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
1 - 1 - 1 - 34	2695800 815170	1242 1243 1245	36'	TURBIDITY:	2.4 [.4 2.6	NA	Flood	150'	02 hrs
<del>8</del> <b>2</b> 7 <b>08 - 04 -1-2</b> <b>8 2 7 08 - 0 4 -1 - 1 8</b> <b>8 2 7 08 - 0 4 -1 - 5</b> 7	915089	123.0 1733 1735	39'	2'	1: y 2:3	Ma	Proce	200'	DY has af
			AVERAGE	TURBIDITY:					
			AVERAGE	TURBIDITY:	L	.J ]	T		,
			AVERAGE	TURBIDITY:					
			MATHORE	CORDINIT;	J	_i			
	448444								
	44		AVERAGE	TURBIDITY:					
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (#)	DOWN-CURF	TURBIDITY (NTUs)	GPS FILE NAM	IE TIDAL STAGE	DISTANCE FROM DREDGE/SBLT	NUMBER OF HOURS OREDGING
12708-04-1-Z	2656257		TOTAL WATER DEPTH (#)	DOWN-CURF SAMPLE DEPTH (ft)	TURBIDITY	GPS FILE NAM	E TIDAL STAGE		
12708-04-1-2 82708-04-9-5 82708-04-4-9	2696257 815277	1535	TOTAL WATER DEPTH (M)	DOWN-CURP SAMPLE DEPTH (ft)	TURBIDITY (NTUs)		1	DREDGE/SILT	DZ after
12708-04-1-2 12708-04-9-5 12708-04-9-9 1208-04-9-9 1208-04-9-2	2696257	1535	TOTAL WATER DEPTH (M)	DOWN-CURP SAMPLE DEPTH (H) 2 5 INCREASE:	TURBIDITY (NTUs)		1	DREDGE/SILT	DZ after
12708-04-1-2 8 2708-04-9-5 \$2708-04-4-9 12908-04-9-2 8 2708-04-9-6	2696257 815277 2696287	1535 1537 1540 1742 1744	TOTAL WATER DEPTH (M)	DOWN-CURP SAMPLE DEPTH (H) 2 5 INCREASE:	TURBIDITY (NTUs)  4.3 3.4 5.0	NA	Flood	ISo'	DREDGING  D2 after 1st wam  O4 after
12708-04-1-2 8 2708-04-9-5 \$2708-04-4-9 12908-04-9-2 8 2708-04-9-6	2696257 815277 2696287	1535 1537 1540 1742 1744	TOTAL WATER DEPTH (M)  TURBIDITY  TURBIDITY	DOWN-CURP SAMPLE DEPTH (ft) 2. 3. INCREASE: 2. INCREASE:	TURBIDITY (NTUs)  4.3 3.4 5.0	NA	Flood	ISo'	DREDGING  D2 after 1st wam  O4 after
12708-04-1-2 12708-04-9-5 12708-04-9-9 1208-04-9-9 1208-04-9-2	2696257 815277 2696287	1535 1537 1540 1742 1744	TOTAL WATER DEPTH (M)	DOWN-CURP SAMPLE DEPTH (ft) 2. 3. INCREASE: 2. INCREASE:	TURBIDITY (NTUs)  4.3 3.4 5.0	NA	Flood	ISo'	DREDGING  D2 after 1st wam  O4 after
12708-04-1-2 12708-04-9-5 12708-04-9-9 1208-04-9-9 1208-04-9-2	2696257 815277 2696287	1535 1537 1540 1742 1744	TOTAL WATER DEPTH (M)  TURBIDITY  TURBIDITY	DOWN-CURP 9AMPLE DEPTH (ft) 2. 3. INCREASE: INCREASE: INCREASE:	TURBIDITY (NTUs)  4.3 3.4 5.0	NA	Flood	ISo'	DREDGING  D2 after 1st wam  O4 after
92708-04-1-2 82708-04-9-5 82708-04-4-9	2696257 815277 2696287	1535 1537 1540 1742 1744	TURBIDITY TURBIDITY	DOWN-CURP 9AMPLE DEPTH (ft) 2. 3. INCREASE: INCREASE: INCREASE:	TURBIDITY (NTUs)  4.3 3.4 5.0	NA	Flood	ISo'	DREDGING  D2 after 1st wam  O4 after

JOB NUMBER:

JOB NUMBER: 6615.006.01

DATE: Q 28 08

MONITORS: TM + CA

WEATHER CONDITIONS: SWAY TYPE CLOUDS: SOME WIND

PRIOR STORM EVENTS: D A

DREDGE UPDATE: DYEAR OLD AN DELISE THYOUGHOUT MOTHING - STAAKELUP (& 1:00 pm.)

TYPE OF WATER QUALITY MONITORING: PREDGE / DISPOSAL

TIDE:

High = 0620; 1852 Low = 1159

* Dredge paused in morning for survey + mechanical issues abourd 4.5.

ige M	Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTU»)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	NUMBER OF HE DREDGING	
	083808-00-1- 5	2675026	ONO	39	2'	14			. ,	1	1st h
	012808-00-1-18	915241.4	0603		<u> </u>	1.4	082508	Ebb	<u>۵</u> ۵0′	oohrs	the
	012508-00-1-37		10002	AVERAGE T		1	<del> </del>	<u> </u>		<u> </u>	
				NVEIVIGE I	UKOIDI II.	J	.J				
	C62808-02-(-2	3696048	0501	3/1	⁄ و	2.4					<del></del>
	012303-02-1-15	815116.8	1031	1	ाडेंग	3.2	OSSBOB	EPP	ವಿ೯೯,	oa his	
	082808-02-1-29		1032		29'	7.1					
				AVERAGE T	URBIDITY:	<u> </u>					
	082808-04-1-7	3695766	1333	33/	a'	1.6	]	I	<u> </u>		
	D83 408 - o4 -1 - 12		1223		15	3.9	082808	Flood	100'	oyhrs	
	682808·04 -1- BI	815122	1234	<u> </u>	31'	5.8		<u> </u>			
۳				AVERAGE T	URBIDITY:	l	J				_
N'Y	083808-06-1-3	2646418	1446	10,	2'	4.2	NA	Flood	150'	Τ	<del></del>
4	082808-06-1-5		144.7		\$'	7.3				06 hrs	
J	082809 - OL -1- 8	815459	1444	4	<u> </u>	15.5					
4,	<b> </b>			AVERAGE T	URBIDITY:	1	J				*
	012808-08-1-2	2615110	LLYD	34	2'	1.6	I	I			•
	D82408-08-1-10	-	1641		(61	1.4	NA FI	Flood	200'	OBhrs	,
	RE-1-80-808560	815205	ILYZ	AVERAGE TO	32'	1.8					

	DOWN-CURRENT									
•	Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (n)	TURBIDITY (NTUs)	GPS FILE NAMI	E TIDAL STAGE	DISTANCE FROM DREDGE/SILT CURTAIN	NUMBER OF HOURS DREDGING
	045808-00-1-5	2645672	0810	40'	2.'	2.1	,			
dqe	-00-9-20	815136	1180		20'	1.3	NA	Ebb	200'	OOhrs
MS.	11 - 00 mg + 38	*****	0815	<u> </u>	34'	1.3				
				TURBIDITY	INCREASE:		J			
	082908-02-4-2	2645593	102 4	32.'	2'	2.5		TT		<u> </u>
	11 - 62-4-15	814981	1025		15.	2.6	NM	Epp	200'	02 hrs
	H -62-9-30		1026	*	30 1	4.4				
				TURBIDITY	INCREASE:					
	082808-04-9-2	264605\$	1227	21.	21	2.0	<u> </u>	T		
	" - 0 Y - 9 - 1e	I	13.33	<u> </u>	lo'	2.5	NIA	Flood	200'	04 hrs
	11-04-4-14	812146	1334	Y	19'	2.2				
				TURBIDITY I	INCREASE:		ļ			-
uri [	041808-06-7-2	2645483	1450	1 11	2'	1.8	,	]		
ויי	1 -06-9-5		1451		5'	1.6	AIN F	Flood	200'	06 hrs
•	11 - 06-7-9	812301	1452	4	9'	1.9		LOGET		-
_	TURBIDITY INCREASE:									
	082808-08-9-2	2694334	630	12.7	2'	7.0	,			
	" -09-9-2		1621		_5′	3.0	MA	Flood	200'	oo hrs
	11 -05-4-15	815 423	1452	<b>₩</b>	101	2. 4	1	11		
				TURBIDITY I	KIMPIDE A ME.					

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

nitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER	SAMPLE DEPTH /M	TURBIDITY	GP\$ FILE NAM	ME TIDAL STAGE	TYPE OF WOM & DISTANCE FROM	NUMBER OF HOU DREDGING
8-00-1-2	2695930	0910		2	2.\$	مارد	- J	LOCATION	
	815628	2513	<u> </u>	URBIDITY:	4.5	~/n	1 1000	100	00
9 45 1 5	2495414					1	1		······································
	4	105Y 1055		4'	4.2	N/A	Fload	200	02
1-02-1-/3		V056			4.0				
2-04-1-2	2696258	1365	<u> </u>	2,	7.7	1/_		<b>A</b> (	
-04-1-8	815241	(36)		6′_	1.2	~/~	600	200	94
			AVERAGE I	OKRIDITY:	i,,,,,,	1	· · · · · · ·		
	1		<u> </u>			1		i	
			AVERAGE T	URBIDITY:	I				
		]				-			
	1					<u> </u>			*
	B-00-1-2 B-02-1-2 B-02-1-6 B-02-1-6 B-02-1-6 B-02-1-7 B-04-1-7 B-04-1-8	8-00-1-2 3-00-1-5 3-00-1-8 3-02-1-2 3-02-1-2 3-02-1-6 3-02-1-6 3-04-1-7 3-04-1-7 3-04-1-7 3-04-1-7	8-00-1-2 2695930 0010 8-00-1-5 015628 0513 8-02-1-6 015603 1054 1-02-1-6 015603 1055 1-02-1-13 015603 1056	8-00-1-2 2695930 2010 10' 8-00-1-5 315628 2603 4VERAGE T  8-02-1-2 2695618 255 4  -02-1-4 815603 255 4  AVERAGE T  8-04-1-7 2696258 1365 10' AVERAGE T	## DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEPTH (#) DEP	## DEPTH (R) DEPTH (R) (NTU6)  ## 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			:	DOWN-CURE	RENT				
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (N)	SAMPLE DEPTH (R)	TURBIDITY (NTUs)	GPS FILE NAM	E TIDAL STAGE	DISTANCE FROM DREDGE/SILT CURTAIN	NUMBER OF HOUR DREDGING
40308-00-9-2	2496257	CO24 05	30'	2.	1.0				
10300-00-9-15	OIE MAA	0007	1		7.8	N/A	Flood	100'	00
<u> 10308-00-9-12</u>	BI5472	0007		<u> 28</u>	48.2	<u> </u>	i		***************************************
			TURBIDITY I	NCREASE:	1	J			
90308-02-4-2	2696430	102	13'	21	1.2			, ,	
10309-02-4-6	2 24 2111	1103		6'	1.8	N/A	Flood	200'	02
70308-02-4-11	818244	404	4	<b>B</b> *	5.8				
•		r	TURBIDITY I	NCREASE:	J	.]			
70308-04-4-2	2645747	1317 1318 1314	397	_2	10.1	Ι,		/	04
70308-64-9-1	2695797	1318	<del>  1</del>	18' 37'	9.7	NIA	Ebb	200'	V7
10300 -W -9 - 3	0015277	<u> [[817] </u>	TURBIDITY II		7:5	<del> </del>	1227		
			TURBIDITY	WUREASE:	1				
			<u> </u>			4			
			TURBIDITY I	NCREASE:					
, was			T		T			,	
	1					. ·			
	L		TURBIDITY II	NCREASE:	<b> </b>	-	<u> </u>		<u> </u>
			A			-			

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

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6615.006.01

JOB NUMBER: 6615.00
DATE:
MONITORS:

WEATHER CONDITIONS: SUMMY COO TO A CONDITIONS: SUMMY COO TO A CONDITIONS: SUMMY COO TO A CONDITIONS: SUMMY COO TO A CONDITION OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL OF THE COOL TYALL CLOWS

Hi: 0530 ; 1754 LO: 11:12; N/A

				UP-CURRE	NI				
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (A)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAM	NE TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	NUMBER OF HOURS
91108 -00-1-2 11108 -00-1-5 1108 -00-1-9		2817 2817	117	<del>}</del> ;	1:2	NA	Ebb	150'	00
			AVERAGE T	URBIDITY:		j			
1808-02-1-3 4404-02-1-4		1043	7'	4	1.5 1.5 2.5	NA	Ebb	200'	02
41104 -02 4 -6	***************************************	118.43	AVERAGE T					***************************************	
91108 -04 - 1 - 2 91108 - 04 - 1 - 15 94109 - 04 - 1 - 28		1300	36'	2' 15'	1.2	NA	Flood	200'	04
	· , ·	1200	AVERAGE T			<u> </u>	<del>. I</del>		
41104 - 07 - 1 - 2 41104 - 01 - 1 - 15 41104 - 01 - 1 - 36		644	32'	15.	1:3	MA	Flood	200'	07
			AVERAGE T	JRBIDITY:		J		V V V V V V V V V V V V V V V V V V V	
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-			
			AVERAGE T	JRBIDITY:		<u> </u>			

	•			DOWN-CURP	RENT				
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (R)	TURE/DITY (NTU+)	GPS FILE NAM	IE TIDAL STAGE	DISTANCE FROM DREDGE/SILT CURTAIN	NUMBER OF HOUR DREDGING
1103-00-1-3			36'	Ú,	\$:\$ 1:\$	N/n	Elele	200'	00
			TURBIDITY	NCREASE:		J			
11108-02-4-2 High-02-4-14		1031	36'	18';	1.6	NA	Ebb	200	02
4/10402-4-34		1034	TURBIDITY			<b> </b>	i	***************************************	
7405-04-7-2	-	1305	177	2	2.3				<u>.</u>
91100-04-9-4		1306	<b>J</b>	4' 6'	1.4	NA	Flood	260	04
			TURBIDITY	INCREASE:		J •			
411 <b>98</b> -01. 9-2 11109-01-9-4 11108-01-9-9	•	1650 1651 1652	7	Z' 4,	1.2	NA	Flood	200'	07
	<u></u>		TURBIDITY	NCREASE:					
							1		***
			-						
			TURBIDITY	NCREASE:		1			

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

Dredge Water Quality Monitoring Form

DATE: MONITORS: JALAMS WEATHER CONDITIONS: COOL, CLOUDY, GS'F WIND: LAHT Dreeze PRIOR STORM EVENTS: N/A

DREDGE UPDATE: DISCUSSION OF A LOS H'S
TYPE OF WATER QUALITY MONITORING: (DREDGE )/ DISPOSAL

TIDES:

Hi= 0901; 2125 Lo= 0224 \$ 1454

Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAM	IE TIDAL STAGE	TYPE OF WQM & DISTANCE FROM LOCATION	NUMBER OF HOURS
991608-00-1-2 191608-00-1-17 191608-00-1-33	2695826 815384	0950	35'	2' 17', 33'	1.5	NA	Ebb	200'	00
:			AVERAGE T	URBIDITY;	1.5 N	TV			
91608-02-1-2 91608-02-1-11 91608-02-1-21	2695930 \$16365	1150 1151 1152	23'	2' []'	8.1 4.2 4.1	NA	Ebb	200'	02
			AVERAGE TO	URBIDITY:	3.5 NT	y			
71608-04-1-2 	2695873	14.43	J.	4; -4;	10.9 10.3 9.4	N/A	Ebb	200'	04
	, <u>, , , , , , , , , , , , , , , , , , </u>	14:20	AVERAGE T	URBIDITY:					
9 608-06-1-3-  9 608-06-1-  4 608-06-1-	2696074	16 10 18 10 18 10	10' 10'	<u> </u>	3.0 6.3 6.4	N/A	Flood	200'	06
			AVERAGE TO	URBIDITY:		J			
		****		**************************************					
***	<u> </u>		AVERAGE T	URBIDITY:					······································

				DOWN-CURE	RENT				
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAM	E TIDAL STAGE	DISTANCE FROM DREDGE/SILT CURTAIN	NUMBER OF HOUR: DREDGING
9408-00.9-2	28455th	1000	4	21	2,4		1	ومماحد	
71608.00-1.4	815253	10 00		41	2.2	N/A	1000	KOO'	00
71408-00-9-6	Q13K)	1003	<b>*</b>	<u>~.</u>	2.5	<u> </u>	1000	***	
			TURBIDITY	INCREASE:	2.3 N	30			
91108-02-9-2	2696552	1156	10'	2'	1.5	1	I		
71608-12-7-4		1157	<del>  ',</del>	41	1.7	NA	E66	200	02
1609 -02 -9-8	815366	1158	4	6'	1.8	1	1600	2.00	
			TURBIDITY	NCREASE:	1.7 N	TU .		, , , , , , , , , , , , , , , , , , , ,	
911.08-84-9-2	2696548	1430	1 9'		2.3	T . }	1		<del>*************************************</del>
4/1,04-04-4	*	1431	1	4.	4.4	] N/A	Ebb	200	04
91608-64-4-7	915311	1432	1 4	77	4.1	1		GH - 42	
			TURBIDITY	INCREASE:	J	J			•
91408-06-9-2	2696485	1616	18'	2/	2.3	J .	T .	_	* ************************************
		1618		4"	5.4	NA	Flood	200'	06
1408-00-9-	815432	1619		6'	6.5	1			
			TURBIDITY	INCREASE:		J			
		1			1	1			
						1			
		1	TURBIDITY	NCBEASE,	<del></del>	<del></del>	1		

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT: New Bedford Harbon: Bottom of CAD #2	Dredge Water Quality Monitoring For:
JOB NUMBER; 6615.006.01	<b>-</b>
DATE: 9116108	- A
MONITORS: TM + MB	
WEATHER CONDITIONS: WINDY CLOUDY 60°F	
WIND: WINDLY - IDMOK	
PRIOR STORM EVENTS: N/A	- Am Marcompanies, LLC
DREDGE UPDATE:	<b></b> €'
TYPE OF WATER QUALITY MONITORING DREDGE / DISPOSAL	-
	<del></del>

				Down.	-curren	<u>t</u>			
Ì				uk dan ng	<u>ŠZ</u>				
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	TYPE OF WGM & DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
091808-00-1-2 091808-00-1-16 091808-00-1-36	2695789 816295	1140 1141 1142	36.	16. 26.	0.9 1.2	NA	E66	200'	00
			AVERAGE T	OKBIDITY:					
09180804-1-2 091808-04-1-16 091808-04-1-30	2695792 815341	1534 1538 1538	32'	2' '4' 30'	4.3 3.1 3.2.	N/A	ર bb	200'	04
			AVERAGE T	URBIDITY:	***				
			AVERAGE T	URBIDITY:		]			
						:			
		***************************************	AVERAGE T	URBIDITY:	***************************************		<del></del>		
			AVERAGE T	URBIDITY:					

				UD-WY	ich t				
				DOWNHOURS	HEND'				
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (R)	SAMPLE DEPTH (R)	TURBIDITY (NTUs)	GPS FILE NAME	E TIDAL STAGE	DISTANCE FROM DREDGE/SILT CURTAIN	NUMBER OF HOUR DREDGING
91809-00-9-8 119108-00-9-4 11909-00-9-8	2695342 915050	1150 1152 1153	TURBIDITY I	Z/ G/ B/ NCREASE:	2·2 1·0 2·3	NA	E6b	200'	D <i>O</i>
		····				<del>'</del>	·/		***************************************
41808-04-9-2 91808-04-9- 91808-04-9-	815359	1248 1248	30'	15'	2.7	NA	866	200	04
WALLAND			TURBIDITY I	NCREASE:					
	<u>1888 - 1888 - 1888 - 1888 - 1889 - 1889 - 1889 - 1889 - 1889 - 1889 - 1889 - 1889 - 1889 - 1889 - 1889 - 1889</u>	<u></u>							
			TURBIDITY	NCREASE:		<u></u>	<u> </u>		
			TURBIDITY I	NCREASE:	<u> </u>	<u>.</u>			
						-			
			TURBIDITY			1			

^{*} Turbidity Increase = Down-Current Average Turbidity - Up-Current Average Turbidity

PROJECT: 6615,00   JOB NUMBER:	New Bedford Harbor - N 6615.007.01	avigational D	redging @/	UBRF	······································			Dredge Wate	ir Quality Monitoring Form
DATE: 3/25/09									
MONITORS: / JER WEATHER CONDITIONS: S	SUNNY 40°F	Clear	10-1	5 Molt .	mals fo	om Ne		- Ar	
WIND: 10-15 ~ 6+								Joseph C.	Zervictoris, ali ()
PRIOR STORM EVENTS: C	score siled	lesterda.	1 First	dumo	today			. <i>F</i>	
TYPE OF WATER QUALITY &	NONTORING: DREDG	,,	OSAL					•	
TIDE High: 07:	49, 20:02	Low: O	['23 , [	<u>3:30</u>			<u> </u>	•	
						······································			.,
				UP-CURRE	NT				
Monitoring ID#	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (ft)	SAMPLE DEPTH (ft)	TURBIDITY (NTUs)	GPS FILE NAMI	E TEDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
032509-1-000-1-04	2646591,	11.25	100	2.11	1-38	.110	01	15 Ft NI of	<u> </u>
032509 DI-000_1.05		11:25	10#	<u>5</u> <del>1</del>	0.70	N/A	Ebb	silt cultain	0
			AVERAGE	TURBIDITY:	1.10				
	J :			1			1		
				<del></del>	<del></del>	1			
			_			1			
			AVERAGE	TURBIDITY:	1				
	<u> </u>					1	1		
						1			
	A ,		AVERAGE	TURBIDITY:			4.,		
		I		1	T	T	·		
		~~~~				1	[		
		<u> </u>	AVERAGE	TURBIDITY:	<u></u>		I		
	<u> </u>			***	*···		·		
					<u> </u>	-	}		
						1	<u> </u>		
			AVERAGE	TURBIDITY:		J			
	***************************************								,
				DOWN-CURE	EMT'	-	<u></u>	<u></u>	, <u>, , , , , , , , , , , , , , , , , , </u>
			TOTAL WATER	•	TURBIDITY			DISTANCE FROM	NUMBER OF HOURS
Monitoring ID#	MORTHING/ EASTING	TIME	DEPTH (R)	DEPTH (R)	(NTUs)	GPS FILE NAME	TIDAL STAGE	CURTAIN	DREDGING
032509 DI 010-7-02 032509 DI 010 9-04 032509 DI 010-9-06	2695978,	12:25	8ft	2 ft 4 f+	1.00	11/4	Ebb	15ft 5 of sift contents	0
032509 DI 010 9 06	815546	12:25	0"1"	6f+	0.64	N/A	600	siff curtain	
				INCREASE:	100	7 2.49			
			<u></u>	ALCO AUG.	3(7)				
***************************************			TURBIDITY	INODE ACC]	<u>L</u>	**************************************	
			IOKBIDITI	INCREMOE.		!			
		<u> </u>							
				A SEMBLINGS A MANAGEMENT					
	_ 		TURBIDITY	INCREASE:					
		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					-	
						1			
		. <i>J.</i>	TURBIDITY	INCREASE:		<u> </u>	L		
		<u></u>		· -	······································	Τ			
***************************************						1			
	<u> </u>	I	TURBIDITY	INCHEACE		<u> </u>	<u> </u>	***************************************	
		j	- ORDINI T	HONE SEE		J			
			······································				· · · · · · · · · · · · · · · · · · ·	V75-W	
* Turbidity in anna	Arraman Tradition Co. a.) A.							
* Turbidity increase = Down-Current NBH Navigational Dredging WC	Walade IntolduA - Ob-Coveu	hdini Eggsteve i	жу				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		

-		New Bedford Harbor - N	and Character in	reading to	NOKE	***************************************				i. Cinsuit surners nich Lein
į		6615.007.01							· A	
₩.	DATE: 3/27/09 MONITORS: JFR/JA	1								and the second second
	NEATHER CONDITIONS:		or our	rast to	DON				// \ T) (==)(
+	MIND: Very Stron		usts		1					Statementes A.S.C.
	PRIOR STORM EVENTS:	1							, F	
[DREDGE UPDATE: Cortin	why Cut 1 Co	NONE			······································	·		•	
	TYPE OF WATER QUALITY N		Low:	OSAL	14:39		###		•	
/ H	TIDE High: 090							+ 1 1	diagonal A	0.00
1	Comments: After		above	no con a	1 reads	1,22 ab	- corren	4 - his	disposel, A	
l	re-calibrated.	YS1 6920	Read	was ap	premer	d nos	nal '	there	utter.	
Į				7 ,	UP-CURRE	<u>NT</u>				
ĺ				TOTAL WATER	SAMPLE	TURBIDITY			TYPE OF WOM &	NUMBER OF HOURS
١	Monitoring ID#	NORTHING/ EASTING	TIME	DEPTH (ft)	DEPTH (ft)	(NTUE)	OPS FILE NAME	TIDAL STAGE	DISTANCE FROM LOCATION	DREDGING
J	052709_DI-000_1-02	2696587,	12:00		2.41	इस व	J		- 101 V F	
	732709-D1-000-L04		12:03	711	46+	55.3	NA	E66	1545 A 3	0
k	232709.DI 000_L09	815334	12,03		<u>S#</u>	59.1			SIT CUIM	
1			İ	AVERAGE	TURBIDITY:	<u>L., ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	J			
Ì		3 6 6 6 6 6 6 6 A	la, an		70	M 22	Γ .		100 W 1	
þ	032709-D 1-000-102	2696580,	12:20	, _ ()	2 F+	0.2	N/A	Ebb	1594 Klot	~
ķ	32707 DI ax-1.05	8/5326	12:21	104	\$ f }	C:3	1 /4 / - 1	CPS	silt curta	0
K	32709-01	011228	12.5.2	AVERAGE:	TURBIDITY:	0.4	 	L		
						<u></u>	J		,	
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		L		B. W. A. C.	T merce:		ļ	<u> </u>	L	
1				AVERAGE	TURBIOTTY:	L	J			
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ľ							1			
I							1			
1				AVERAGE	TURBIDITY:		J			
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Ţ				AVERAGE	TURBIDITY:			A		
ı										
ŀ					 		***************************************			·
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			. <u> </u>		DOWN.CURE	FNT		***************************************		
			. <u> </u>		DOWN-CURE			***************************************	DISTANCE FROM	
	Monitoring ID #	NORTHING/ BASTING	TIME	TOTAL WATER	SAMPLE	TURBIDITY	GPS FILE NAME	TIDAL STAGE		NUMBER OF HOURS DREDGING
	•			DEPTH (ft)	SAMPLE DEPTH (R)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DREDGE/SILT CURTAIN	DREDGING
	•		12:15	DEPTH (ft)	SAMPLE DEPTH (R)	TURBIDITY (NTUs)	J ,		DREDGE/SILT CURTAIN	DREDGING
	•				SAMPLE DEPTH (R)	TURBIDITY (NTUs)	OPS FILE NAME	Ebb	DREDGE/SILT CURTAIN	DREDGING
	Monitoring ID # 571767 DI-00-1-02 572767 DI-00-7-03		12:15	OEPTH (N)	SAMPLE DEPTH (R)	TURBIDITY (NTUs)	J ,		DREDGE/SILT	DREDGING
ļ	02107 DI-00-9-02 032707 DI-00-9-03 032707 DI-00-9-03	2695981, 815346	12:15	OEPTH (N)	SAMPLE DEPTH (R) 2 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TURBIDITY (NTUS) O. O. 1 O. 1 O. 2 O. 1	J ,		DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
ļ	02107 DI-00-9-02 032707 DI-00-9-03 032707 DI-00-9-03	2695981, 815346	12:15	TURBIDITY	SAMPLE DEPTH (m) 2-f1 7-f1 NCREASE:	TURBIDITY (NTUs)	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	TURBIDITY	SAMPLE DEPTH (m) 2-7-1 1-7-7 INCREASE: 2-1-1 4-7-7	TURBIDITY (NTUS) 0.0 0.1 0.1 0.1 0.1 0.1	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	•	2695981, 815346	12:15	OFFT TURBIDITY	SAMPLE DEPTH (M) 2.71 4.71 INCREASE: 2.11 411 7.61	TURBIDITY (NTUs) O. O. O.	J ,		DREDGE/SILT CURTAIN	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	OFFT TURBIDITY	SAMPLE DEPTH (m) 2-7-1 1-7-7 INCREASE: 2-1-1 4-7-7	TURBIDITY (NTUS) 0.0 0.1 0.1 0.1 0.1 0.1	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	OFFT TURBIDITY	SAMPLE DEPTH (M) 2.71 4.71 INCREASE: 2.11 411 7.61	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	OFFT TURBIDITY	SAMPLE DEPTH (M) 2.71 4.71 INCREASE: 2.11 411 7.61	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	DEPTH (M) Off TURBIDITY OFF TURBIDITY	SAMPLE DEPTH (M) 2.f.† 7.f.† INCREASE: 2.f.† 41.† 7.f.† INCREASE:	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	DEPTH (M) Off TURBIDITY OFF TURBIDITY	SAMPLE DEPTH (M) 2.71 4.71 INCREASE: 2.11 411 7.61	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	DEPTH (M) Off TURBIDITY OFF TURBIDITY	SAMPLE DEPTH (M) 2.f.† 7.f.† INCREASE: 2.f.† 41.† 7.f.† INCREASE:	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	DEPTH (M) Off TURBIDITY OFF TURBIDITY	SAMPLE DEPTH (M) 2.f.† 7.f.† INCREASE: 2.f.† 41.† 7.f.† INCREASE:	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	DEPTH (M) Off TURBIDITY OFF TURBIDITY	SAMPLE DEPTH (M) 2.f.† 7.f.† INCREASE: 2.f.† 41.† 7.f.† INCREASE:	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	DEPTH (M) Off TURBIDITY OFF TURBIDITY	SAMPLE DEPTH (m) 2.f.; 7.f.; INCREASE: 2.f.; 4.f.; 7.f.; INCREASE:	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	DEPTH (M) Off TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEPTH (m) 2.f.; 7.f.; INCREASE: 2.f.; 4.f.; 7.f.; INCREASE:	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	DEPTH (M) Off TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEPTH (m) 2.f.; 7.f.; INCREASE: 2.f.; 4.f.; 7.f.; INCREASE:	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	DEPTH (M) Off TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEPTH (m) 2.f.; 7.f.; INCREASE: 2.f.; 4.f.; 7.f.; INCREASE:	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	DEPTH (M) Off TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEPTH (m) 2-f1	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	DEPTH (M) Off TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEPTH (m) 2-f1	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	DEPTH (M) Off TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEPTH (m) 2-f1	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695981, 815346 2695995,	12:15 12:17 12:18 12:31	DEPTH (M) Off TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEPTH (m) 2-f1	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING
	032707-DL-00-1-02 032707-DL-00-1-04 032707-DL-00-1-03 032707-DL-00-1-02	2695961, 815346 2695995, 815380		DEPTH (M) OFF TURBIDITY TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEPTH (m) 2-f1	TURBIDITY (NTUs) O. O. O.	N/A	Ebb	DREDGESSAT CURTAIN 15fts f 5ilt Curtain	DREDGING

		로 (연호 GE (연호	nue set	BCAW	oerk)				Companies, J.C
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (R)	UP-CURRE SAMPLE DEPTH (ft)	THORUSTY	erstlenam			NUMBER OF HOURS
040509-DI-1-2 40509-DI-1-4 140509-DI-1-8	2695847 B15652	:40 :47 :52	lo' AVERAGE	TURBIDITY:	1.59 1.71 1.35 1.55 A	NA	stack/ fleed	15' from	No died
246509- D1-1- 2 240509- D1-1- 4 240509- D1-1- 8	2695847 815652	11:42 11:43 11:44	(0 ¹	2 Y	0.2 0.5 0.6	NA	Slack/ fund	(5 ′	NIA

· · · · · · · · · · · · · · · · · · ·			AVERAGE	TURBIOITY:					
			A) ÆDAGE	TURBIDITY:					
			I AVERAGE			J			
							T		
			AVERAGE	TURBIDITY:					
Disposal @	11:65 AM (M	ito (A	AVERAGE D Z TOTAL WATER	TURBIDITY: DOWN-CURB SAMPLE	TURBIDITY	St - disp		DISTANCE FROM DREDGE/SILT	
Monitoring ID# 246509 - D1 - 9 - 2 240509 - D1 - 9 - 9	ya ya waxaya cift makidimana	13:00 13:10	AVERAGE TOTAL WATER DEPTH (N)	DOWN-CURRED BAMPLE DEPTH (N)	1.32.	GPS FILE NAME	Flood		NUMBER OF HOURS DREDGING No circu
Monitoring ID# 9-509-01-9-2 9-509-01-9-5 9-50-9-01-9-9	NORTHING/EASTING 269 6576 815416	13:00 13:10	AVERAGE TOTAL WATER DEPTH (N)	DOWN-CURRED BAMPLE DEPTH (N)	1.32.	GPS FILE NAME	Flood	DREDGESILT CURTAIN 15' SIII	DREDGING
Monitoring ID # 140509 - D1 - 9 - 2 140609 - D1 - 9 - 5 240509 - D1 - 9 - 9 (Tu	NORTHING/EASTING	13:00 13:10	AVERAGE TOTAL WATER DEPTH (N) TURBIDITY	DOWN-CURR SAMPLE DEPTH (N) 2. 5. 9. INCREASE: 5.5. 9.	1.32.	GPS FILE NAME	Flood	DREDGESILT CURTAIN 15' SIII	DREDGING
Monitoring ID# 246509 - D1 - 9 - 2 147659 - D1 - 9 - 5 240509 - D1 - 9 - 9 (Tu	NORTHING/EASTING 2696576 815416 Crbidity Inch	13:00 13:10 13:2>	AVERAGE TOTAL WATER DEPTH (N) TURBIDITY	DOWN-CURRED BEPTH (N) 2. 5. INCREASE: 5.5. 2.	TURBIDITY (NTUs) [• 3 2. 2 8 2.] • 6 2. • 9 3. ATT 15 4. 0 • 2. 2 • 3.	A)A CAVA	F(*oci	DREDGEISILT CURTAIN 15' From	No clred no clred
Monitoring ID# 246509-01-9-2 240509-04-9-5 240509-01-9-9 (Tu	NORTHING/EASTING 2696576 815416 Crbidity Inch	13:00 13:10 13:2>	AVERAGE TOTAL WATER DEPTH (N) TURBIDITY	DOWN-CURR SAMPLE DEPTH (N) 2. 5. 9. INCREASE: 5.5. 9.	TURBIDITY (NTUs) [• 3 2. 2 8 2.] • 6 2. • 9 3. ATT 15 4. 0 • 2. 2 • 3.	A)A CAVA	F(*oci	DREDGEISILT CURTAIN 15' From	No clred no clred
Monitoring ID # 246509 - D1 - 9 - 2 446509 - D1 - 9 - 5 246509 - D1 - 9 - 9	NORTHING/EASTING 2696576 815416 Crbidity Inch	13:00 13:10 13:2>	TOTAL WATER DEPTH (N) TURBIDITY TURBIDITY	DOWN-CURR SAMPLE DEPTH (N) 2. 5. 9. INCREASE: 5.5. 9.	TURBIDITY (NTUs) [.32. 2.82].06 [.93.ATT	A)A CAVA	F(*oci	DREDGEISILT CURTAIN 15' From	No cired no today
Monitoring ID# 246509 - D1 - 9 - 2 147659 - D1 - 9 - 5 240509 - D1 - 9 - 9 (Tu	NORTHING/EASTING 2696576 815416 Crbidity Inch	13:00 13:10 13:2>	TOTAL WATER DEPTH (N) TURBIDITY TURBIDITY	DOWN-CURRED BEPTH (N) Z SOURCEASE: SS T 0.111 2 INCREASE:	TURBIDITY (NTUs) [.32. 2.82].06 [.93.ATT	A)A CAVA	F(*oci	DREDGEISILT CURTAIN 15' From	No chred today
Monitoring ID# 246509-01-9-2 240509-04-9-5 240509-01-9-9 (Tu	NORTHING/EASTING 2696576 815416 Crbidity Inch	13:00 13:10 13:2>	AVERAGE TOTAL WATER DEPTH (R) TURBIDITY TURBIDITY TURBIDITY	DOWN-CURRED BEPTH (N) Z SOURCEASE: SS T 0.111 2 INCREASE:	TURBIDITY (NTUs) [.32. 2.82].06 [.93.ATT	A)A CAVA	F(*oci	DREDGEISILT CURTAIN 15' From	No clred no clred
Monitoring ID# 246509-01-9-2 240509-04-9-5 240509-01-9-9 (Tu	NORTHING/EASTING 2696576 815416 Crbidity Inch	13:00 13:10 13:2>	AVERAGE TOTAL WATER DEPTH (R) TURBIDITY TURBIDITY TURBIDITY	DOWN-CURR SAMPLE DEPTH (N) Z S G INCREASE: CINCREASE: CINCREASE:	TURBIDITY (NTUs) [.32. 2.82].06 [.93.ATT	A)A CAVA	F(*oci	DREDGEISILT CURTAIN 15' From	No cired no today

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PROJECT: JOB NUMBER: DATE: 4809	New Bedford Harbor - N 6615.007.01	iavajacona: c	redging 😥		- 1			Dredge Wat	er Quality Monitoring For
MONITORS: JEZ WEATHER CONDITIONS:	IM (M 40 F From the Sh	· · · · · · · · · · · · · · · · · · ·	and the state of t					A E	
PRIOR STORM EVENTS:	RAIN DILVIEUS	2 day	Sesme	. 41101	<u>ь</u>				Demyamies, (d.C
TYPE OF WATER QUALIT TIDE High:		Low:	oeyr)					•	
								•	
e com	LAT LONG	3	TATAL MATER	UP-CURRE				TYPE OF WOM &	
Monitoring ID #	_ NORTHNO-EASTING	13 26	TOTAL WATER DEPTH (#)	SAMPLE DEPTH (M)	TURBIDITY (NTUs)	GPS FILE NAME		LOCATION	NUMBER OF HOUF DREDGING
	-41,38,46.1 -070 55 02.9	13:20	9f7 average	SH TURBIDITY:	2.39	NA	Slexly	Disposal 18 ft	0
	_								
			AVERAGE	TURBIDITY:					

			AVERAGE	TURBIDITY:					
			AVERAGE	TURBIDITY:					
		7		T					
			AVERAGE	TURBIDITY:					
HONOTON ID#	LAT LONG NORTHWOTENOTHER	7 TIME	AVERAGE:	DOWN-CURE	ENT TURBIONY (NTUs)	GPS FILE NAME	E TIDAL STAGE		NUMBER OF HOU DREDGING
CANONICOTING ID #	мов иниотельтик — 41 38 45.3	TIME	TOTAL WATER	DOWN-CURR	TURBIDITY	GPS FILE NAME	STOAL STAGE	DREDGE/SILT CURTAIN	
	NORTHWO! EASTERS	TIME	TOTAL WATER DEPTH (R)	DOWN-CURR SAMPLE DEPTH (TI) 2 (-1 5 ft	TURBIDITY (NTUs) 2.05	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 .	DREDGE/SILT	
	мов иниотельтик — 41 38 45.3	13 35 13 35 13 35 13 35	TOTAL WATER DEPTH (M) IOST, TURBIDITY IUST	DOWN-CURRE SAMPLE DEPTH (M) 2 FT 5 FT INCREASE: 2 FT E FT E FT	TURBIDITY (NTUs) 2.05	N/A	Slack/ Hosel	DREDGE/SILT CURTAIN	
	41 38 45.3 070 55 0.4 41 38 40	13 35 13 35 13 35	TOTAL WATER DEPTH (M) IOST, TURBIDITY IUST	DOWN-CURRE SAMPLE DEPTH (III) 2 FF 5 FF INCREASE: 2 FF	TURBIDITY (NTUS) 2.05 2.38 2.88	N/A	Slack/ Hosel	AY SILT CUSTOLL	DREDGING
	41 38 45.3 070 55 0.4 41 38 40	13 35 13 35 13 35	TOTAL WATER DEPTH (R) IOFT, TURBIDITY TURBIDITY	DOWN-CURE SAMPLE DEPTH (M) 2 FT 5 FT NCREASE: 2 FT 4 FT INCREASE:	TURBIDITY (NTUS) 2.05 2.38 2.88	N/A	Slack/ Hosel	AY SILT CUSTOLL	DREDGING
	41 38 45.3 070 55 0.4 41 38 40	13 35 13 35 13 35	TOTAL WATER DEPTH (R) IOFT, TURBIDITY TURBIDITY	DOWN-CURRE SAMPLE DEPTH (M) 2 FT 5 FT INCREASE: 2 FT E FT E FT	TURBIDITY (NTUS) 2.05 2.38 2.88	N/A	Slack/ Hosel	AY SILT CUSTOLL	DREDGING
	41 38 45.3 070 55 0.4 41 38 40	13 35 13 35 13 35	TOTAL WATER DEPTH (R) IOST. TURBIDITY TURBIDITY TURBIDITY	DOWN-CURE SAMPLE DEPTH (M) 2 FT 5 FT NCREASE: 2 FT 4 FT INCREASE:	TURBIDITY (NTUS) 2.05 2.38 2.88	N/A	Slack/ Hosel	AY SILT CUSTOLL	DREDGING
A Monitoring (D #	41 38 45.3 070 55 0.4 41 38 40	13 35 13 35 13 35	TOTAL WATER DEPTH (R) IOST. TURBIDITY TURBIDITY TURBIDITY	DOWN-CURR SAMPLE DEPTH (R) 2 FF 5 FF INCREASE: 2 FF INCREASE: INCREASE:	TURBIDITY (NTUS) 2.05 2.38 2.88	N/A	Slack/ Hosel	AY SILT CUSTOLL	٥
	41 38 45.3 070 55 0.4 41 38 40	13 35 13 35 13 35	TOTAL WATER DEPTH (R) IOFT. TURBIDITY TURBIDITY TURBIDITY TURBIDITY	DOWN-CURR SAMPLE DEPTH (R) 2 FF 5 FF INCREASE: 2 FF INCREASE: INCREASE:	TURBIDITY (NTUS) 2.05 2.38 2.88	N/A	Slack/ Hosel	AY SILT CUSTOLL	DREDGING

TE: U D D NITORS: ATHER CONDITIONS: D: D: D: D: D: D: D: D: D: D: D: D: D:	JEK L JEK		OSAA	Nuw [Ju		ewing (a			ter Cushy Monkodny Form
Monitoring 10 #	HORTHING! EASTING	TIME.	TOTAL WATER	UP-GURI SAMPLE OEPTH (N)	TURBERTY PATENT	ops file hame	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM	NUMBER OF HOURE
	21,46590, 815416	14:15 14:15 14:15	8ft average	2 + + 4 + + 6 + +	1.01	NA	Ebb	15 ft	N/A
			AVERAGE 1	URBIDITY:			:		
	_		AVERAGE 1	IORBIOTY:					
			_ AVERAGE 1	TURBIOTTY:					
		<u></u>		<u> </u>			<u> </u>		
			L_AVERAGE 1	TURBIDITY:	<u> </u>				
Monitoring ID#	NORTHING EASTING	TIME	TOTAL WATER	DOWN-CUI	TURBIDITY	GPS FILE HAME	TIDAL SYAGE	DISTANCE FROM	NUMBER OF HOURS DREDGING
Monitoring ID#	NORTHING EASTING 41,38,40, 070,54,66	1 4.7.25	TOTAL WATER DEPTH (FQ	DOWN-CUI SAMPLE DEPTH (R) 2 FT 3 FT 4 FT	TURBIDITY (NTUs) 0.45 0.47	u/f	TIDAL STAGE		NUMBER OF HOURS DREDGING
Monitoring ID #	·	1 4.7.25	TOTAL WATER DESTINGS GFT TURBIDITY	DOWN-CUI BAMPLE DEPTH (R) 2 FF 3 FF 4 FF NCREASE: 2 FF 5.5 FF 9 FF	TURBIDITY (NTUR) 0.95 0.87 1.31 1.04 0.76 1.89	u/f		DREDGE/SILT CURTAIN	DREDGING
Monitoring ID #	41,38 40, 070,54,60	14:35 14:35 14:35	TOTAL WATER DEPTH (IQ) GFT TURBIDITY	DOWN-CUI BAMPLE DEPTH (R) 2 FF 3 FF 4 FF NCREASE: 2 FF 5.5 FF 9 FF	TURBURITY (NTUB) 0.95 6.87 1.31 1.04	w/ft	Ebb	DREDGE/RILT CURTAIN	N/G
Monitoring ID #	41,38 40, 070,54,60	14:35 14:35 14:35	TOTAL WATER DESTINGS GFT TURBIDITY	DOWN-CUI BAMPLE DEPTH (R) 2 fr 3 ft 4 ft INCREASE: 2 ft 5.5 ft 9 ft	TURBIDITY (NTUR) 0.95 0.87 1.31 1.04 0.76 1.89	w/ft	Ebb	DREDGE/RILT CURTAIN	N/G
Monitoring ID #	41,38 40, 070,54,60	14:35 14:35 14:35	TOTAL WATER DEPTH (IQ) GFT TURBIDITY II FT TURBIDITY	DOWN-CUI BAMPLE DEPTH (R) 2 fr 3 ft 4 ft NCREASE: 2 ft 5.5 ft 9 ft NCREASE: NCREASE:	TURBIDITY (NTUR) 0.95 0.87 1.31 1.04 0.76 1.89	w/ft	Ebb	DREDGE/RILT CURTAIN	N/A

ATE: JONITORS: VEATHER CONDITIONS: VIND: PRIOR STORM EVENTS: PREDGE UPDATE: TYPE OF WATER QUALITY MORE THE STORM AND AND AND AND AND AND AND AND AND AND								7.77	5.000 (4.00.00 (1.54.00 (1.56))
VEATHER CONDITIONS; VIND; PRIOR STORM EVENTS; DREDGE UPDATE:						<u></u>			And the state of t
PRIOR STORM EVENTS: DREDGE UPDATE:									
REDGE UPDATE:			· · · · · · · · · · · · · · · · · · ·		annan an an an an an an an an an an an a	·	-	第一个一个	dinguista (1.40)
YPE OF WATER QUALITY MO		1	24						宗祖孟教堂 李大学
NDE High: //:/6	NITORING: DREDGI		4.25-	16:18					

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				UP-CURI	RENT				
Monitoring ID #	HORTHWG/ EASTING	TIME	TOTAL WATER DEPTH (III)	OBPTH (ft)	TURGEDITY (ATUS)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & CHSTANCE FROM LOGATION	Number of Hours Oredging
	2701537 815055	14:20	5ft	3 FT	0.47	NA	Ebb	200ft	4
	815055	14:20			1,41				
			AVERAGE	TURBIDATY:	1.64	1			
						•]		
	**************************************	<u> </u>	AVERAGE	TURBIDITY:		<u></u>	<u></u>	L	_
				<u> </u>	<u> </u>	<u> </u>			
		l	AVERAGE	TURBIOTY;			<u> </u>		
<u></u>					<u> </u>	<u> </u>	l'''' I	——————————————————————————————————————	
						}			
		.	AVERAGE	TURBIDITY:]	<u> </u>		
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· · · · · · · · · · · · · · · · · · ·		<u>. </u>	AVERAGE	TURBIDITY:			1		
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		١.							
				DOMN-CII	RRENT				
Monitoring ID#	NORTHING! EASTING	TIME	TOTAL WATER DEPTH (R)	SANPLE DEPTH (ft)	TURSKUITY (aUTM)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SILT CUSTAIN	MIMBER OF HOURS DREDGING
	2700876	14:43	102	2 5-	1.46	/4	ر ز سو	67	
	815765	14:45 14:45	67	3#	7:37	N/A	Ebb	20017	4
			TURBIOTTY	increase:	1.45	l			
								1	
			TURBIDDY	INCREASE:		<u> </u>	<u> </u>		
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			TURBIDITY	INCREASE:		***************************************		<u> </u>	
		<u> </u>				·			
			TURBIOTY	NCREASE.			1		
		I.							·
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			THE PROPERTY OF			<u></u>	<u> </u>		
			TURBIONY	NCREASE:		-	<u>.</u>		

JOB NUMBER:	New Bedferd Herbor - N 8615.907.01	avigational C	hedging (2	MBK	<u> </u>			Chedge Wi	the Quality Monitoring Form
DATE: 4/14/0 MONTORS: J	€R IJEIC				· 		····		
WEATHER CONDITIONS:				······································				4 / 4	
WIND: PRIOR STORM EVENTS:			,					w/EE	Company Tig
DREDGE UPDATE:			2)	***				(事) 中国 (中国)	
TYPE OF WATER QUALITY IN TIDE High:	MONITORING: DREDG	E / DISP	OSAL						
THUE HIGH		rose:						•	
			······································	UP-CURF	T/13		~		
Monitoring ED #	NORTHEIG! EASTERG	THE .	TOTAL WATER DEPTH (R)	SAMPLE DEPTH (II)	TUREIDITY (NTA)	ops file name	TEDAL STAGE	TYPE OF WORE & DISTANCE FROM LOCATION	NAMBER OF HOURS
	2696002, 815431	17:00	10	2 F7	1.60	NA	V. /	15 ft	N/A
	815431	17:00	617	447	1.46	ra yı	Flood	1211	N/4
			AVERAGE '	TURBIDITY:	3.43	l ,			
		1					1		
		1,	AVERAGE	THORESTY			1		
		Markenskeinen		VADIDITY.) 			· · · · · · · · · · · · · · · · · · ·
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	<u> </u>						<u> </u>		
•		-	LAVERAGE	TURBIDITY:		<u> </u>			
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	. 4		AVERAGE	TURBIDITY:	1	j			
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	·		AVERAGE:	TURBIDITY:					
,	-			,					
				DOWN-CUI	RENT				
Monitoring ID#	NORTHING/EASTING	SWIT	TOTAL WATER DEPTH (R)	DEPTH (tt)	TUPSZOITY (NTUs)	OPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SILT CURTAIN	NUMBER OF HOURS DREDGING
	2696590, 815416	17:30	052	3 17	3.11	NA	Flood	15ff	NI la
	815416	17.30		7.47	1.90		11000	1377	MA
	\$11.4.15 N.1.1.490		TURBIDITY	INCREASE:	2.37]			
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	4	<u></u>	TURBIDITY	INCREASE:	L		<u></u>		
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			TURBIDITY	INCREASE:					
			TURBIDITY	INCREASE:			1		
			TURBIDITY	INCREASE:					
				INCREASE:					
			TURBIDITY	INCREASE:					
				INCREASE:					

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PROJECT:	New Bedford Harbor - N	evigational D	redging 😢	林(21-loce	13.		Chradge We	nor Quality Monitoring Form
JOB NUMBER:	6615.007.01) 7	,,,							
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	er.				~ <u>A.A.A.A.A.</u>				
WEATHER CONDITIONS:				· · · · · · · · · · · · · · · · · · ·					
WIND: PRIOR STORM EVENTS:	**************************************		***************************************	······································	**************************************				
DREDGE UPDATE:			7						A Parallella Charles
TYPE OF WATER QUALITY I	MONITORING: DREDG	E / DISP	OSAL)						
TIDE Right	. <u> </u>								
Dune	hre 10:	50 M	1						•
				UP-CURF	LENT				
			TOTAL WAYER	BARPLE	TURRENOTY			TYPE OF WOM &	NUMBER OF HOURS
Monitoring ID #	NORTHING! EASTING	TIME	обрти М	DEPTH (R)	(NTUs)	OPS FILE NAME	TIDAL STAGE	DISTANCE FROM LOCATION	DREDGING
	2696496 , 815561	10:14	11 C+	2+F	2:38 2:33	NA		15ft	0
	815561	10:14	// 7 /	9 64	1,93	10/20	416	10//	
	•		AVERAGE	TURBIDITY:	2.21				
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	1				<u> </u>	1			
	1	<u> </u>	43.40.4.6.4	W. 194 W.	Į	L			,, , .
			AVERAGE	URBIDITY:		1	4		
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	-								
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				TURBIDITY:	<u> </u>	j			
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				DOWN-GUI	BRENT				
# Of gairotine M	NORTHING EASTING	BMIT	TOTAL WATER	SAMPLE DEPTH (R)	YTKINBINITY (&UTM)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGERSLT	NUMBER OF HOURS DREDGING
	Traceron)	11:00		2. F.F.	60.57	<u> </u>		CURTAIN	
	2695981, 815438	11:00	761	3.5 /	3,07	N/A	E66	15Ft	0
	1 017730	1//:00	TURBIDITY	SF+	5.05		L		
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	the man comment and the commen		TURBIDITY	NCREASE:			· · · · · · · · · · · · · · · · · · ·		
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		L	TURBIDITY	NCREASE			1		
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* Turbicijos inextenses as Down-Correct	Average Truthidity - Lin.Comme	Augrana Turkin	iko						

OÆCT:	New Bedford Harbor - N	hryigational D	redging (B		ora	>		Christope Wa	ter Quelty Monitoring Form
NUMBER: E: 4/2-Z-/ STORS:	8616.007.01 0°4 J€@								
THER CONDITIONS:									
R STORM EVENTS: DGE UPDATE:									
OF WATER QUALITY	MONITORING: (DREDG	Low:	OSAL						
Dernye Ti	ine C	68:Z	-O						v.
J				UP-GURI	RENT				
Monitoring ID #	NORTHING EASTING	TIME	TOTAL WATER DEPTH (II)	DEPTH (A)	TURGRIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	LOCATION	NUMBER OF HOURS DREDGING
	2696539 815509	0812	12f4 average	2 6 72 TURBIDITY:	1.7	N/4	EDS	Disposed 15ft	0
	2688216,	1335	8f+	2 4	Z.2 1.7	N/A	Flood	Diedging	1
	816526	11335	<u></u>	TURBIDITY:	2 · g 2 · 2 3			200 ft	
	2688264,	13:50	7 Ft	2 4	1:3	N/4	Plood	Diedging	2
	8167KO	13:50		TURRENDITY:	1.4	~(~	7 (000)	200°ff	
									
	1								
			AVERAGE	TURBIDITY:			<u> </u>		·
			AVERAGE	TURBIDITY:					
				TURBIDITY:					
Monitoring ED #	NORTHING EASTING	TIME	AVERAGE	DOWN-CU	TURBIDITY	GPS FILE NAME	TIDAL STAGE		NUMBER OF HOURS
Monitoring ED #		T	AVERAGE	DOWN CU	TURBIDITY (NTUs)	r		DREDGE/SILT CURTAIN	DREDGING
Monitoring ED #	NORTHING EASTING 2695979, 81554)	T	AVERAGE: TOTAL WATER DEPTH (R) 12 f /-	DOWN-CU SAMPLE DEPTH (R)	TURESIDITY (NTUs)	GPS FILE NAME N/A	TIDAL STAGE	DREDGE/SILT	
Moritoring ID #		0828 0828 0728	AVERAGE TOTAL WATER DEPTH (R) 12 f / TURBIDITY (6 f /	DOWN-CU SAMPLE DEPTH (R) Z CONCREASE Z	TURBIDITY (PITUS) 4.5 2.4 4.07 1.4 2.6 3.1	N/A		DREDGE/SILT CURTAIN	DREDGING
Moritoring ED #	2695979, 81554)	0828 0828 0728	TOTAL WATER DEPTH (M) 12 f /- TURBIDITY	DOWN-CU SAMPLE DEPTH (R) Z CONCREASE Z	TURBIDITY (NTUs) 9.3 9.5 2.4 9.07	N/A	Enb	DISPOSE /S F4	DREDGING
Moritoring ID #	2695979, 81554)	0828 0828 0728	TURBIDITY Off TURBIDITY	DOWN-CU SAMPLE DEPTH (R) Z C INCREASE: Z INCREASE:	TURBIDITY (PITUS) 4.5 2.4 4.07 1.4 2.6 3.1	N/A	Enb	DISPOSE /S F4	DREDGING
Monitoring ED #	2695979, 81554)	0828 0828 0728	AVERAGE TOTAL WATER DEPTH (R) 12 f / TURBIDITY (6 f /	DOWN-CU SAMPLE DEPTH (R) Z C INCREASE: Z INCREASE:	TURBIDITY (PITUS) 4.5 2.4 4.07 1.4 2.6 3.1	N/A	Enb	DISPOSE /S F4	DREDGING
Monitoring ED #	2695979, 81554)	0828 0828 0728	TURBIDITY Off TURBIDITY	DOWN-CU SAMPLE DEPTH (R) Z C INCREASE: Z INCREASE:	TURBIDITY (PITUS) 4.5 2.4 4.07 1.4 2.6 3.1	N/A	Enb	DISPOSE /S F4	DREDGING
Monitoring ED #	2695979, 81554)	0828 0828 0728	TURBIDITY Off TURBIDITY	DOWN-CU SAMPLE DEPTH (R) Z G 70 INCREASE Z INCREASE	TURBIDITY (PITUS) 4.5 2.4 4.07 1.4 2.6 3.1	N/A	Enb	DISPOSE /S F4	DREDGING
Monitoring ED #	2695979, 81554)	0828 0828 0728	TURBIDITY TURBIDITY	DOWN-CU SAMPLE DEPTH (R) Z G 70 INCREASE Z INCREASE	TURBIDITY (PITUS) 4.5 2.4 4.07 1.4 2.6 3.1	N/A	Enb	DISPOSE /S F4	DREDGING

OJECT: B NUMBER:	New Budford Hartror - M 8615.007.01	avigational (redging @	(ot	tord'	51/30	UN C	M Consider of	rier Cuality Monitoring For
TE: 4/25/0	29								
NITORS: ATHER CONDITIONS:	CM6								
¥D:						· · · · · · · · · · · · · · · · · · ·		Later .	Samples List
IOR STORM EVENTS: EDGE UPDATE:					***				
PE OF WATER QUALITY IE High:	MONITORING: DREDG	Low-	POSAL					•	
						<u> </u>			
Dump	2 07:35	-							
		**************************************		UP-CUR	RENT				·
Monitoring 1D #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (III)	DEPTH (IX)	(WJTW)	ops fre name	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	MANBER OF HOL DREDGING
	41838 45.5"		1299	2 -	7.2	N/A			0
	70' 55' 03.2"			10	LS	1000	<u> </u>		
•			AVERAGE	TURBIDITY:	1.83				
		1			T	1			
			1			1			
	1	<u></u>	AVERAGE	TURBIDITY:	1	 	<u> </u>		
		·	T		<u> </u>	- 	· ·		
	<u> </u>		1			1			
· · · · · · · · · · · · · · · · · · ·		<u> </u>	AVERACE	TURBIDITY:	 	ļ	<u> </u>		
•			1	· · · · · · · · · · · · · · · · · · ·	·	<u> </u>			
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	1		ALE DAOR	n inglomy.					
		·	- WAELANDE	TURBIDITY:	<u> </u>		·		
	_		j		}	1	1 1		1
	1	1	3		1	7	1 1		
			AVERAGE	TURBIDITY:					
			AVERAGE	TURBIDITY					
,			AVERAGE	TURBIDITY:	-				
			AVERAGE	-	RRENT				
				DOWN-CU				DISTANCE FROM	NUMBER OF HOL
Monitoring (D#	NORTHING/EASTING	SMIT	AMERAGE TOTAL WATER DEPTH (R)	DOWN-CU SAMPLE DEPTH (D)	TURSSIDITY (HTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGERSLT CURTAIN	NUMBER OF HOU DREGGING
Monitoring ED#			TOTAL WATER DEPTH (N)	DOWN-CU SAMPLE DEPTH (a)	TURBSIONY (MTUs)		TIDAL STAGE	DMEDGERELT	DREDGING
Monitoring ©#	NORTHING EASTING - 4/" 38" 39.9" - 070" 55" 026"		TOTAL WATER DEPTH (N)	DOWN-CU SAMPLE DEPTH (R)	1.8 2.0 2.2	GPS FILE MARK	TIDAL STAGE	DMEDGERELT	NUMBER OF HOU DREDGING
Monitoring © #			TOTAL WATER DEPTH (N)	DOWN-CU SAMPLE DEPTH (2)	TURBSIONY (MTUs)		TIDAL STAGE	DMEDGERELT	DREDGING
Monitoring © #			TOTAL WATER DEPTH (N)	DOWN-CU SAMPLE DEPTH (R)	1.8 2.0 2.2		TIDAL STAGE	DMEDGERELT	DREDGING
Monitoring © #			TOTAL WATER DEPTH (N)	DOWN-CU SAMPLE DEPTH (R)	1.8 2.0 2.2		TIDAL STAGE	DMEDGERELT	DREDGING
Monitoring €) #			TOTAL WATER DEPTH (N)	DOWN-CU SAMPLE DEPTH (R) 2 SC INCREASE:	1.8 2.0 2.2		TIDAL STAGE	DMEDGERELT	DREDGING
Monitoring © #			TOTAL WATER DIEPTH (P)	DOWN-CU SAMPLE DEPTH (R) 2 SC INCREASE:	1.8 2.0 2.2		TIDAL STAGE	DMEDGERELT	DREDGING
Monitoring ©#			TOTAL WATER DIEPTH (P)	DOWN-CU SAMPLE DEPTH (R) 2 SC INCREASE:	1.8 2.0 2.2		TIDAL STAGE	DMEDGERELT	DREDGING
Monitoring (D.#			TOTAL WATER DIEPTH (P)	DOWN-CU DAMPLE DEPTH (R) 2 4 10 INCREASE	1.8 2.0 2.2		TIDAL STAGE	DMEDGERELT	DREDGING
Monitoring €3#			TOTAL WATER DEPTH (R) 12 ft TURBIDITY TURBIDITY	DOWN-CU DAMPLE DEPTH (R) 2 4 10 INCREASE	1.8 2.0 2.2		YIDAL STAGE	DMEDGERELT	DREDGING
Monitoring © #			TOTAL WATER DEPTH (R) 12 ft TURBIDITY TURBIDITY	DOWN-CU DAMPLE DEPTH (R) 2 4 10 INCREASE	1.8 2.0 2.2		TIDAL STAGE	DMEDGERELT	DREDGING
Monitoring © #			TOTAL WATER DEPTH (R) 12 ft TURBIDITY TURBIDITY	DOWN-CU SAMPLE DEPTH (R) 2 SC 1C INCREASE: INCREASE:	1.8 2.0 2.2		TIDAL STAGE	DMEDGERELT	DREDGING
Monitoring (D.#			TOTAL WATER DEPTH (P) 12 ft TURBIDITY TURBIDITY TURBIDITY	DOWN-CU SAMPLE DEPTH (R) 2 SC 1C INCREASE: INCREASE:	1.8 2.0 2.2		TIDAL STAGE	DMEDGERELT	DREDGING
Monitoring © #			TOTAL WATER DEPTH (P) 12 ft TURBIDITY TURBIDITY TURBIDITY	DOWN-CU SAMPLE DEPTH (R) 2 SC 1C INCREASE: INCREASE:	1.8 2.0 2.2		YIDAL STAGE	DMEDGERELT	DREDGING
Monitoring © #			TOTAL WATER DEPTH (P) 12 ft TURBIDITY TURBIDITY TURBIDITY	DOWN-CU SAMPLE DEPTH (R) 2 SE I C INCREASE INCREASE	1.8 2.0 2.2		TIDAL STAGE	DMEDGERELT	DREDGING

CLECT: B NUMBER: TE: 4/2-4/1 INTORS: ATHER CONDITIONS: ID:	New Bedford Harbor - N 8616,007.01	evigational D	redging @)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	* 314			Checkes Va	der Duelly Monkoding Form
OR STORM EVENTS:			<u> </u>				· · · · · · · · · · · · · · · · · · ·		
EDGE UPDATE: PE OF WATER QUALITY I	MONITORING: DREDG	E / DISF	OSAL	**	· · · · · · · · · · · · · · · · · · ·			28 4/4 4] 125 W.C.	as juul Beletulikt viin sulvii vi
E Hight	3014101411- 21121	Low			· · · · · · · · · · · · · · · · · · ·				
DungT	The @ C	9:2	5				-		
1				<u>UP-CUR</u>	ENI				
Monitoring ID #	NORTHING! EASTING	TIME 0835	TOTAL WATER DEPTH (8)	BARIPLE (XEPTH (R)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & DISTANCE PROM LOGATION	NAMBER OF HOURA DREDGING
	2696565,	O832 O832	12ft	- <u>(e</u> 10	1:6	N/A	Ebb	15f1	Ø
			AVERAGE	TURBIDITY:	1.43_				
			AVERAGE	TURBIDITY:					
**************************************			AVERAGE.	TURBIOTY:					
		· · · · · · · · · · · · · · · · · · ·	1			[
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	·		AVERAGE	TURBIDITY:			lt		
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	1		///ERAGE	T negatros.			1		
			7442104512	· ORBIDIT		ì			
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			<u>, , , , , , , , , , , , , , , , , , , </u>	DOWN-GUI	RENT				
Monitoring (D#	NORTHWAY EASTING	TIME	TOTAL WATER	SAMPLE DEPTH (A)	TURSSUITY (NTUs)	GPS FILE HAME	TIOAL STAGE	DISTANCE FROM DREDGESILT CURTAIN	Number of Hour Dredging
Monitoring (D #		0935	DEPTH (A)	BAMPLE DEPTH (R) Z	(NTUe)	GPS FILE HAME		DREDGE/S(LT	
Monitoring (D#	2662951		DEPTH (N)	BAMPLE DEPTH (R)	TURSSUITY (NTUs)		TIDAL STAGE	DREDGEASLT CURTAN	DREDGING
Monitoring (D#		0935	8tt	BAMPLE DEPTH (R)	YINDERDITY (AUTH) 2.1.5			DREDGEASLT CURTAN	DREDGING
Monitoring (D #		0935	S.f.	BAMPLE DEPTH (A) Z Y C INCREASE:	YINDERDITY (AUTH) 2.1.5			DREDGEASLT CURTAN	DREDGING
Monitoring © #		0935	8tt	SAMPLE DEPTH (R) Z (C) INCREASE:	YINDERDITY (AUTH) 2.1.5			DREDGEASLT CURTAN	DREDGING
Monitoring 8D #		0935	S.f.	BAMPLE DEPTH (A) Z Y C INCREASE:	YINDERDITY (AUTH) 2.1.5			DREDGEASLT CURTAN	DREDGING
Monitoring #D #		0935	S.f.	SAMPLE DEPTH (R) Z Y CO INCREASE:	YINDERDITY (AUTH) 2.1.5			DREDGEASLT CURTAN	DREDGING
Monitoring #D #		0935	S.F.L. TURBIDITY TURBIDITY	SAMPLE DEPTH (R) Z Y CO INCREASE:	YINDERDITY (AUTH) 2.1.5			DREDGEASLT CURTAN	DREDGING
Monitoring 80 #		0935	S.F.L. TURBIDITY TURBIDITY	SAMPLE DEPTH (R) Z (C) INCREASE: INCREASE:	YINDERDITY (AUTH) 2.1.5			DREDGEASLT CURTAN	DREDGING
Monitoring #D #		0935	TURBIOTY TURBIOTY	SAMPLE DEPTH (R) Z (C) INCREASE: INCREASE:	YINDERDITY (AUTH) 2.1.5			DREDGEASLT CURTAN	OREDGING
Monitoring 8D #		0935	TURBIOTY TURBIOTY	SAMPLE DEPTH (R) Z (C) INCREASE: INCREASE:	YINDERDITY (AUTH) 2.1.5			DREDGEASLT CURTAN	OREDGING

			1	1.00	(-)	/		0	
	New Hedford Hertror - N	avigational D	redging &	211/08	1 St /	South.	ferm	Conseque Wa	tor Custing Monitoring Form
JOB NUMBER: 1/24/0°	8615.007.01							A	
			-						
WIND: PRIOR STORM EVENTS:			·						
DREDGE UPDATE:					· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	
TYPE OF WATER QUALITY IN	HONITORING: DREDG	Low: DISP	OSAV						
Dino	The @ 1	2:4	 5						
<i></i>				UP-CUR!	RENT				
Monitoring ID #	NORTHING/EASTING	TIME	TOTAL WAYER DEPTH (R)	SAMPLE DEPTH (0)	TERRESORTY (NTUs)	GPS FILE NAME	TVDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	number of hours dredoing
	2676555)	1225	SLL	7	0.80	NA	4bb	15F7	NA
	815424	1225	7770	6	0.85		C 57	1 / 1 7	.'4 //
			AVERAGE	I EARDEALY:	0.835	J			
						1			- W
<u> </u>						<u> </u>			
			AVERAGE	TURBIDITY:	[1		****	^
					<u> </u>				
*			AVERAGE	TURBIDITY:	<u> </u>	J			
						<u> </u>			
			AVERAGE 1	TURBIDITY:	1	J .			-
			AVERAGE	T ICHOLOVEN					
:				. Ordain T.		J			
				DOWN CIT	SPENT				
			TOTAL WATER	DOWN-CUI SAMPLE	TUREIDITY			DISTANCE FROM	NUMBER OF HOURS
Monitoring ID#	NORTHING/EASTING	TIME	DEPTH (附	DEPTH (1)	(ality)	GPS FILE NAME		DREDGE/SILT CURTAIN	DREDGING
	2696112, 815663	1305	laft	3	1.0	MA	Ebb	15f}	N/R
	<u> </u>	1305	TURBIOITY	INCREASE:	1.37]	CVV	, , ,	
		1				-	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
						1			
			TURBIDITY	NCDEASE.		 			
			, sayour!	MUREASI:	·	T			
	<u> </u>	<u> </u>	TURBIDITY	NCREASE:					
	:	1 .			<u> </u>	- I	Г		
		I	TURBIDITY	INCREASE:			<u> </u>	<u></u>	
						<u> </u>			
]		}	
<u></u>	<u> </u>	L	TURBIDITY	INCREASE:]	<u> </u>		
			-						

PROJECT: JOB NUMBER:	New Budford Harbor - No 6815.007.01	rygational D	usgāruā 🙃					CHOOL W	nar Guardy Monacong Ponti
DATE: 5/4/0	4								
MONITORS: WEATHER CONDITIONS:	CMA	·····	· · · · · · · · · · · · · · · · · · ·	MA-2	······································	····			
WIND:			**					The same of the sa	
PRIOR STORM EVENTS:					· ·				
TYPE OF WATER QUALITY I	IONITORING: DREDG	E / /06P	OSAL T	Managaman	***************************************				
TIDE High:		Low:							
		······································					······································	,	
				<u>UP-CURI</u>	RENT				
Monitoring ID #	NORTHING! EASTING	THAT	TOTAL WATER	DEPTH (II)	TURRESORTY	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM 8 DISTANCE FROM LOCATION	number of hours dredging
	{	1/30	10ft	1,2	077	N/A			A) \A
		1130			1.0				N.A
			AVERAGE	TURBIDITY:	3.02]			
			1					·	
	<u> </u>	<i>[</i>	AVERAGE	TURBIDITY:					· · · · · · · · · · · · · · · · · · ·
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,			AVERAGE	TURBIDITY:	<u> </u>]			
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		<u> </u>	AVERAGE	TURBIDITY:					
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		······································	*,	DOWN-CU	RRENT				
			TOTAL WATER		TURESIDITY			DISTANCE FROM	NUMBER OF HOURS
Monitoring ID#	NORTHING/ EASTING	TIME	DEPTH (II)	DEPTH (A)	(NTUs)	GPS FILE NAME	Tidal Stage	DATEDGEANLT CARTAIN	DREDGING
	l		11ft	- 2 - 6	2.7	MA			۸۱ د ڼ
	<u> </u>		71 1 1	9	0.87				NA
			TURBIDITY	INCREASE:	1.1.22	ţ.			
			1]			
	<u> </u>	1	TURBIDITY	INCREASE:					
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		<u>.</u>	TURBIDITY	INCREASE:	<u> </u>)			!
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			TURBIDITY	INCREASE:					
						7	<u> </u>		
						}	ł		
	<u> </u>	L	TURBIONY	INGREASE:		<u> </u>			
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L									
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PROJECT: JOB NUMBER: DATE: MONITORS: JE/C WIND: PRIOR STORM EVENTS: DREDGE UPDATE: TYPE OF WATER QUALITY! TICE High:	WONITORING: DREDC	SE / (DISP	osal	Parto		\			ter Country Monitoring Forss
Dimp	The 11:5			UP-CUR	ENT		**************************************	· · · · · · · · · · · · · · · · · · ·	
Monitoring ID #	HORTHING/ EASTING	TWAS	TOTAL WATER DEPTH (A)	SAMPLE DEPTH (B)	(NLIng)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & DISTANCE PROM LOCATION	NUMBER OF HOURS DREDGING
	2696505, 815523	## <u>#</u>	9F+ AVERAGE	5 7 TURBIDITY:	13 13	NA	Ebb	Disposity	NA
	2687140, 816400	1645 1645 1645	5H AVERAGE	2 3 4 TURBIDITY:	2.5 2.7 2.3 2.5	NA		Didge 200ft	4
			AVERAGE:	CURBIOTY:					
	<u> </u>	<u>L</u>	AVERAGE 1	TURBIDITY:					
		`							
			AVERAGE.	TURBIDITY:]			<u> </u>
Monitoring ID #	NORTHING/ EASTING	3MIT	TOTAL WATER		TUREHOITY	ops file name	TINAL STAGE	DISTANCE FROM DREDGE/SILT	NUMBER OF HOURS
	2696001.	12.01	10ft	DEPTH (ft)	(NTUs)	I	Ebb	Disperson 15++	M A
	8/5563	12.01	TURBIDITY	INCREASE:	73 18	NA	666	/37/	****
	2686910, 816474	1658 1658 1658	6H	2 4	3 14 16	NA		Oredoge 200ft	Ч
			TURBIDITY	INCREASE:	14.3				
			TURBIDITY	INCREASE:					
			TURBIDITY	NCREASE:		<u> </u>		<u> </u>	
······································	I.—		TURBIONY	ncrease:					
* Turbicity increase = Own-Current	Average Trubielly Lin Commo	At At a second of the second o						-	

PROJECT: JOB NUMBER:	New Bedford Harbor - Na 6615.007.01	rylgational ()	redging @	WIH	John	nak		Creage wa	ter Cuality Monitoday Form
DATE: HAR		<u></u>							
WEATHER CONDITIONS: WIND:								AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	
PRIOR STORM EVENTS:							·		
DREDGE UPDATE: TYPE OF WATER QUALITY I	MONITORING: DREDG	E) / DISF	OSAL.					, ,	
TIDE High:		Lows				<u> </u>			
		······································		UP-GURF	ent				
Monitoring ID #	NORTHING! EASTING	L TIME	TOTAL WATER DEPTH (III)	SAMPLE OEPTH (N)	TURRENTY (AUTU)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
	PLYBOX BY MOIL	1500	10ft	\$	1/3	NA	Find	Zooft	
	at Subster per	-	AVERAGE	TURBIDITY:		1	·		
	PI SAUSIU POY	1	l		<u> </u>				
	1					1			
	<u></u>	<u> </u>	AVERAGE	TURBIDITY:			I		~
			AVERAGE	TURBIOTTY:					
<u> </u>	1	<u> </u>	T	<u> </u>	 	1	1		
			}]			
			AVERAGE	TURBIDITY:					
		<u> </u>	AVERAGE	TURBIDITY:			<u> </u>		
	V			-			······································		
·									
				DOWN-CU	RRENT				
Monitoring ID#	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (N)	SAMPLE DEPTH (n)	TURENDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DREDGESELT CURTAIN	NUMBER OF HOURS DREDGING
	This war	1500	1844	3	1.5	N/A	Dord	200f4	
	Schooler Play-bo	1820	1	INCREASE:	2.73		1 - /1		
	Time:	<u> </u>	·	T	<u> </u>				
	1					1	1		
		1	TURBIDITY	INCREASE:			<u> </u>		
	<u> </u>		TURBIDITY	INCREASE:					
	J		<u> </u>	L		1	1		
			TURBIONY	INCREASE:					
			TURBIDITY	HCREASE:			<u>_</u>		:

Trada the leases are a Roman A.	A Assessment Visit (Phys. 14).	4 7							

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PROJECT:	New Bedford Harbor - N	evigational C	redgin y @	BUNK	550~	tork		Carandges We	ter Ousely Moritaring Form
JOB NUMBER:	8615.007.01							A	
MONITORS: \\E\(\)	USD								
WINU:						······································		- EA - E	
PRIOR STORM EVENTS:									
TYPE OF WATER QUALITY I	MONITORING: DREDG	E) (DISP	OSAL						
TIDE Hight		Lowe				,			
Up & Down	Same Pos	iton	(No	other	otlet) during	3 dre	dging	
Dino Th	ee 13:36	,		UP-CURE	ENI DO	m-Curi	ent (SAHE)	
Monitoring ID#	NORTHINISI EASTING	THATE	TOTAL WATER		TURBIOTY	GPS FILE NAME	TEDAL STAGE	TYPE OF WOM &	NUMBER OF HOURS
	1-12-07-7	1037	DEPTH (R)	DEPTH (N)	(NTUs)	r	1 7	LOCATION	DREOGING
	2692827, 814866	1037	311	16	1.7	N/A	Flood	200ft	1
	1 BIHOUN	1037	AVERAGE 1	2.4 URBIDITY:	1.33	111	<u> </u>		
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	ł					1			
The state of the s			AVERAGE	TURBIDITY:					- The second sec
,	2696532,	1330		2_	1.8	r		63	
	815465	1330	10ft	-5-	1.3	MIA	Fbb	Disposet	NIA
		17536	AVERAGE	URBIDITY:	1.0		<u> </u>	DISPOSE I	
***************************************		7				·	r		
		<u> </u>	AVERAGE 1	ri ibainity.			<u> </u>		
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	1						<u> </u>		·
				TURBIDITY:	<u> </u>	j			
<u> </u>				,	·				

				DOWN-CUI	RENI				
Monitoring ID#	NORTHING EASTING	TIME	TOTAL WATER DEPTH (N)	SAMPLE DEPTH (R)	TLIREIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE		MUMBER OF HOURS DREDGING
						<u> </u>	ľ	CURTAIN	
	1								
	4		TURBIDITY	INCREASE:				······································	
	T T	T		0.000- 4 1	Γ			<u> </u>	
	1							}	
	<u>[</u>		TURBIDITY	MONCADO.	.,,	<u> </u>	<u> </u>		
			LIDROLALI	MUNICASS:	L	i			
	2016010, 815593	1350	1384	-2:	1.4	/.	Ebb	15ft.	Nº/A
	815513	1350		1	1.6	N/A	TOP	Dispessed	14 Pt
			TURBIDITY	INCREASE:	<u> </u>	, ,		•	
			. 7						
	ĺ								
			TURBIDITY	NCREASE:			<u> </u>		
	1	T			I	1	I	1	
	İ						Ì	}	
	<u> </u>	L	TURBIONY	WCREASE:					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		<u> </u>							**
1									

PROJECT: JOB NUMBER: DATE: 5 14 09 MONITORS: J WEATHER CONDITIONS: WIND: PRIOR STORM EVENTS: DREDGE UPDATE: TYPE OF WATER QUALITY IN TIDE High:								Credge W	tor Quelly Monkeding Porm
Monitoring 10 #	NORTHING EASTING	TEME	TOTAL WATER DEPTH (0)	ORPTH (A)	TURBENTY (NTUA)	GPS FILE NAMI	TEDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
	2695994, 815492	0850 0850	10 Pt AVERAGE	2 5 8 TURBIDITY:	0.20	NIA	Flood	15ft	N/A
		1		1			T 1		
			AMEDAGE.	TURBIDITY:					17 IR
	<u> </u>	T .	AVEIVAGE	I ORBIDITI.	i i	, 	1		·
			AVERAGE	TURBIOTY:	t		·	·	
	<u> </u>		AVERAGE	TURBIDITY:	L		<u> </u>		
				***************************************					A A A A A A A A A A A A A A A A A A A
							<u> </u>		
	•	1	AVERAGE	TURBIDITY:	L	j			
	** <u>***********************************</u>								
				DOWN-CUI	RRENT			***************************************	
Monitoring ID#	NORTHING EASTING	MIT	TOTAL WATER DEPTH (R)	Bample Depth (r)	TURSKOTY (NTUs)	GPS FILE HAME	TIDAL STACK	DREDGE/SILT CURTAIN	NUMBER OF HOURS DREDGING
	2696544,	०६५८ ७४५८	1091	3	0.5 2.5	N/A	Pland	15H	NIA
	1 812417	0845		INGREASE:	2.27		<u> </u>		
			TURBIDITY	INCREASE:					
		L	TURBIDITY	INCREASE:					
							· · · · · · · · · · · · · · · · · · ·		
		·	TURBIDITY	INCREASE:			·		
									•
		L	TURBIDITY	INCREASE:					<u> </u>
			<u></u>			·····			
* Turbidity Increase * Down-Current	Average Turbinity - Up-Current	Average Turbid	ily						

				()		ο <i>D</i>	t		
PROJECT:	New Bedford Harbor - N	evigational C	redging @	Soil	on lu	hart		Ciredge W	tar Custly Monitoring Form
JOB NUMBER: DATE: 5 [L. C	8615,007.01 7			,,,,,				A	
MONITORS:			***************************************						
WEATHER CONDITIONS: WIND:				· · · · · · · · · · · · · · · · · · ·					
PRIOR STORM EVENTS:							****		
DREDGE UPDATE: TYPE OF WATER QUALITY I	MONITORING: DREDG	E DISP	OSAL.						d to the contract
TIOE High:		tow:							
Two Down	~ Current	o lo	ation	s Tal	cen				
				UP-CURE					
Monitoring ID #	NORTHING/ EASTING	TRME	TOTAL WATER DEPTH (III)	SAMPLE DEPTH (ft)	TURRENDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
	2692082,	1230	20ft		1.65	MIA	Flood	Dredge	
	<u> ४८ ४५५ </u>	1230		18	4.09		[Linea]	200 Ft	2_
			AVERAGE	URBIDITY:	2.09	<u> </u>		·	
				,,,,,,		1			
	<u> </u>	I.,	AVERAGE	URBIDITY:	L.,	<u> </u>	I		·
	I				ſ	r	1		·
	·					1			
	<u> </u>		AVERAGE:	TURBIOTY:					
	<u> </u>	I		**************************************	T.	I	1		
	·								
	<u> </u>	L	AVERAGE	TURBIDITY:		<u> </u>	<u>. </u>		
	T	1		I			1		
***************************************	j]		j	
	<u> </u>	<u> </u>	AVERAGE	TURBIDITY:		<u> </u>	<u> </u>		
					hhhpayaaaibaati faaaaaa				
				DOWN-GUI	RENT				
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (N)	gample Depth (n)	TURBIDITY (#TTM)	GPS FILE NAME	TIDAL STAGE	DESTANCE FROM DREDGERSU.T CUSTARY	MIMBER OF HOURS DREDGING
		1315	6Ft	2 7	0.27		Ploud	2 . C.L	3
		1313	.	5	0.75	N/4	PIEUL	200ft	2-
			TURBIOTTY	INCREASE:	0.61	<u>. </u>			
	26923851	1325		2	0,48		آء رہے	5 £1	
	2692385) 817660	1325	23ft	00 انت	0.55	N/A	Move	zouft	Z
			TURBIDITY		0.61]	•		
					[T	ı ı		
						1	.		•
		<u> </u>	TURBIDITY	INCREASE:			<u></u>		
]					<u> </u>	T	`	
					ļ.——				
***************************************		1	TURBIDITY	INCREASE:	L		<u>. </u>		
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	<u> </u>	L	TURBIDITY	MOREASE:		 	<u> </u>		
* Turbidity Increase = Down-Current	Average Tustility - Up-Current	Average Turbi	Øły						

DE NUMBER: ATE: 5 LO 0 ONTORS: EATHER COMDITIONS: INIT: RICH STORM EVENTS: RECIGE UPDATE: YPE OF WATER QUALITY DE High:	9615,007.01	E) / DIST	redging @	2)1172	** S[Dractor Viv	ar Coulty Monitoring Form
Monitoring ID #	NORTHENS/ EASTING	TIME	TOTAL WATER DEPTH (N)	UP-CURF BAMPLE OEPTH (N)	TURBEXTY (NTVA)	gps file nami	TEDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	HUMBER OF HOURS
	2687551, 816571	1490	6F+	2. 3. 4 TURBIDITY:	5.95 6.95 52.0 21.6	N'A	Flood	zooft	6
			AVERAGE 1	TURBIDITY:					
			AVERAGE:	DURRIDITY:				·	
			AVERAGE 1	TURBIDITY:					
			AVERAGE	TURBIDITY:					
			***************************************	-				······································	• • • • • • • • • • • • • • • • • • • •
		*							
		·	TOTAL WATER	DOWN-CUI				DISTANCE FROM	NUMBER OF ROLIDS
Monitoring ED#	NORTHING EASTING	TIME 1420	TOTAL WATER DEPTH (N)	DOWN-GUI GAMPLE DEPTH (R)	TUPRESIDITY (PATUs)	GPS FILE NAME		OREDGEASILT CURTAIN	NUMBER OF HOURS DREDGING
Monitoring ID#	NORTHING EASTING 2688188, 316578		TOTAL WATER DEPTH (R) 9F+ TURBIDITY	GAMPLE DEPTH (R)	TURBUDITY (PETU#)	GPS FILE NAME		DREDGERSILT	NUMBER OF HOURS DREDGING
Monitoring ID #		1420	9f+	GAMPLE DEPTH (R)	TURRECUITY (PITUS) 4.38 1.23 3.55	· · · · · · · · · · · · · · · · · · ·		OREDGEASILT CURTAIN	DREDGING
Monitoring ID#		1420	9f+	GAMPLE DEPTH (R) Z Z INCREASE:	TURRECUITY (PITUS) 4.38 1.23 3.55	· · · · · · · · · · · · · · · · · · ·		OREDGEASILT CURTAIN	DREDGING
Monitoring ED #		1420	9F+ TURBIDITY TURBIDITY	GAMPLE DEPTH (R) Z T INCREASE:	TURRECUITY (PITUS) 4.38 1.23 3.55	· · · · · · · · · · · · · · · · · · ·		OREDGEASILT CURTAIN	DREDGING
Monitoring ED #		1420	9F+ TURBIOTY	GAMPLE DEPTH (R) Z T INCREASE:	TURRECUITY (PITUS) 4.38 1.23 3.55	· · · · · · · · · · · · · · · · · · ·		OREDGEASILT CURTAIN	DREDGING
Monitoring ED #		1420	9F+ TURBIDITY TURBIDITY	GAMPLE DEPTH (R) Z T INCREASE: INCREASE:	TURRECUITY (PITUS) 4.38 1.23 3.55	· · · · · · · · · · · · · · · · · · ·		OREDGEASILT CURTAIN	DREDGING
Monitoring E) #		1420	9F4 TURBIDITY TURBIDITY	GAMPLE DEPTH (R) Z T INCREASE: INCREASE:	TURRECUITY (PITUS) 4.38 1.23 3.55	· · · · · · · · · · · · · · · · · · ·		OREDGEASILT CURTAIN	DREDGING

	New Bedford Harbor - N 6615,007.01	EARTOOLEN D	Leadanid 68						ntar Quality Monitoring Form
DATE: 5/22 09								A	
MONITORS: TROMA WEATHER CONDITIONS: 5	JM 78'F		a.w		······································				
WIND: Smale									
PRIOR STORM EVENTS: A	<u> </u>						······································		
TYPE OF WATER QUALITY H			DSAL)	····					
TIDE Hightobile	5e	Low:							
									,
		······································	Massaco	UP-CURI	BUT		,	,	
			**************************************					TYPE OF WOM &	
Monitoring ID #	HORTHING! EASTING	THE	TOTAL WATER DEPTH (II)	SAMPLE OEPTH (n)	(NTUS)	GPS FILE HAME	TIDAL STAGE	DISTANCE FROM LOCATION	MIMDER OF HOURS DREDGING
052249-DI-1-2	2696530	0000	11 /	2	1.25				
0522-99- DI-1-9	815461	0801	n'	47	8:43	NIA	Epp	5'	00
Disposal @			AVERAGE	TURBIDITY:					
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4.0c			İ						
			MEGAGE				<u> </u>		
			AVENAGE	TURBIDITY:		! 			
		-	}						
			AVERAGE	TURBIDITY:	<u> </u>	1			
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			<u> </u>						
	-		AVERAGE	TURBIDITY:					
	<u> </u>					[· · · · · · · · · · · · · · · · · · ·	I		
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}			1			ł	1 1		
			AVERAGE	TURRIDITY:					
			AVERAGE	TURRIDITY:					
			AVERAGE	TURRIDITY		***************************************			
			AVERAGE	TURBIDITY:					
			AVERAGE	DOWN-GUI	REENI				
Monitoring D #	NORTHING/ EASTENG	TIME	TOTAL WATER	DOWN-GUI	TURSIDITY	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGESSILT	NUMBER OF HOURS
Monitoring ID # 552209-101-9-2				pown.gu		GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGESILT CRETARN	Number of Hours Dredsing
052209-DI-9-2	2696007	08:15	TOTAL WATER	DOWN-CUI	7URSIDITY (NTUs) 0.65	GPS FILE NAME	TIDAL STAGE	CLERTAIN	Number of Hours Dredenko
052209-DI-9-2		08:15	TOTAL WATER DEPTH (II)	DOWN-GUI SAMPLE DEPTH (R)	TUREIDITY (NTUE)		1	DREDGERILT	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (II)	DOWN-CUI	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (II)	DOWN-CUI	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (R)	DOWN-CUI SAMPLE DEPTH (R) A (C) IOC INCREASE:	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (II)	DOWN-CUI SAMPLE DEPTH (R) A (C) IOC INCREASE:	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (R)	DOWN-CUI SAMPLE DEPTH (R) A (C) IOC INCREASE:	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (R)	DOWN-CUI SAMPLE DEPTH (R) A (C) IOC INCREASE:	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (R)	DOWN-GUI SAMPLE DEPTH (R) 10' INCREASE:	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (R)	DOWN-GUI SAMPLE DEPTH (R) 10' INCREASE:	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (R)	DOWN-GUI SAMPLE DEPTH (R) 10' INCREASE:	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (R)	DOWN-GUI SAMPLE DEPTH (R) A I D O' INCREASE:	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (R) I A' TURBIDITY TURBIDITY	DOWN-GUI SAMPLE DEPTH (R) A I D O' INCREASE: INCREASE:	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (R) I A' TURBIDITY TURBIDITY	DOWN-GUI SAMPLE DEPTH (R) A I D O' INCREASE: INCREASE:	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (R) I A' TURBIDITY TURBIDITY	DOWN-GUI SAMPLE DEPTH (M) 3. 10.* INCREASE: INCREASE:	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (TO) 12 TURBIDITY TURBIDITY TURBIDITY	DOWN-GUI SAMPLE DEPTH (M) 3. 10.* INCREASE: INCREASE:	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING
052209-DI-9-2	2696007	08:15	TOTAL WATER DEPTH (TO) 12 TURBIDITY TURBIDITY TURBIDITY	DOWN-GUI SAMPLE DEPTH (M) 3. 10.* INCREASE: INCREASE:	7URSIDITY (NTUs) 0.65		1	CLERTAIN	DREDGING

PROJECT: QVT JOB NUMBER: DATE: \$ \$ \$ \$ \$ MONITORS: JL \$ WEATHER CONDITIONS: WIND: PRIOR STORM EVENTS: DREDGE UPDATE: TYPE OF WATER QUALITY TIDE High: // 19	MONITORING: (DREDG		352	44 17						rikofing Form
Monitoring ID #	NORTHING EASTING	TIME	TOTAL WATER	UP-CURR SAMPLE DEPTH (b)	TURBIDITY (NTUs)	GPS FILE NAME	E TIDAL STAGE	TYPE OF WORK & DISTANCE FROM LOCATION		r of hours Edgins
	818000 , 2693407	10 13	18ff average	2 E) 4 B) 1 La F4 TURBIDITY:	9.59	N/4	Flood	e south	<u> </u>	1
	2696 681 815506	1400 1400 1400	12.F+	2 ft 6 97 6 97	0.84	n/A	ELL	Tod to	иД	Disposal
		<u> </u>	AVERAGE	L						
	,		_AVERAGE	TURBIDITY;						
and the state of t			AVERAGE	TURBIDITY:						
	1		` .							
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			LAVERAGE	TURBIDITY:		ı				
						·				
			·							***
Monitoring ED#	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (R)	DOWN-CUE SAMPLE DEPTH (R)	TURBIDITY (NTUE)	GPS FILE NAM	TIDAL STAGE	DISTANCE PRIDIS DREDGE/SILT CURVIAN		R OF HOURS LEDGING
	2643690	1025	1644	· · · · · · · · · · · · · · · · · · ·	1.86	NIA	Flood	from dredge	4. ,	1
		·	TURBIDITY	INCREASE;		İ			***************************************	
	26959 89 , 815 3 75	1445	10ft	2 ft 5#	1.22 0.65 3.27	N/A	E66	Toughto soften	N/A	ac opei C
			TURBIDITY	INCREASE:						
				4						
	<u> </u>	1	TURBIDITY	INCREASE:			<u>L,,</u>	<u> </u>		
	-								···	
			TI IONINGS	HODE AOT.						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	I	<u> </u>	TURBIDITY	m-Unit-ASC:			T			
***************************************			TURBIDITY	INCREASE:						
	r Average Yuddidiy - Up-Cumm					······································		<u>.</u>	***************************************	

TE: 4 4 INITORS: 15 C ATHER CONDITIONS: ID: IOR STORM EVENTS:									
EDGE UPDATE:									
PE OF WATER QUALITY E High:	MONITORING: DREDG	Low:	OSA					-	
Atlantic d	redging e	Linker	Man	L					·
				UP-CURF	RENT				
Monitoring ID #	NORTHING/ EASTING	THANK	TOTAL WATER	SAMPLE DEPTH (R)	TURBIOTY (NTUs)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM A OCSTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
	269365 517948	14.55	1884	i	Li	NIA	Flood	<i></i>	<18 ft from a 1t.
			AVERAGE	TURBIDITY:	هامل]			·
	2 645984 , \$15501	1620	1284	2 50 10	2,2. 1,4 4,1	NIA	Flood	enten	Disposal
			AVERAGE	YTKIBBIÜT		}			
· · · · · · · · · · · · · · · · · · ·					***************************************				
			AVERAGE	TURBIOITY:			<u> </u>	1	
		T		1]	1	
	1					-			
·			AVERAGE	TURBIDITY:				T	
	1		ALEDACE.	TURBIDITY:		<u> </u>	<u> </u>		
			L_XVER/39E	TORBIDITY.		,			
			anne de la company de la compa						
Monitoring ID#	NORTHING/EASTING	nue.	TOTAL WATER	DOWN-CUI SAMPLE DEPTH (R)	TURBIDITY (NT.M)	OPS FILE NAME	TIDAL STAGE	DISTANCE FROM DISEOSEISILT CURTAIN	Number of Hours Dredging
	2693747, 817884	1452	12Ft	<u>z</u> 10	<i>1,4</i>	N/A	Ploop	215 Ft	4/
· · · · · · · · · · · · · · · · · · ·	<u> </u>		TURBIOTTY	INCREASE:	4.1		<u></u>		
	2696542, 816460	1655 1655 1865	13.84	- - - - - - - - - -	4.2 1.3 8.4	N/A	Flood	als ft from cartain	Disposal
			TURRIUT	INCREASE:					

	<u> </u>		TURBIDITY	MCDEAGE			<u>.</u>		
			UNDIVIT				·····		
	<u> </u>		·			I	Į		
							•		
			TURBUSTY	INCREASE:					
			TURSHOTTY	INCREASE:					
				INCREASE:					

JOB NUMBER; DATE: G Q U MONITORS:	New Bedferd Herbor - No 8615.007.01 Z.	rvigational D	redging @		ELG	MARI	NE	Orndoe Wel	er Quality Monitoring Form
WEATHER CONDITIONS:		·							
WND:		<u></u>	***************************************						ALBERTA LINE
PRIOR STORM EVENTS: DREDGE UPDATE:		~					***************************************		
TYPE OF WATER QUALITY N	ONITORING: / DREDG	E)/ DISP	OSAL						
TIDE High: ()).			20.12	~42				,	
Monitoring ID #	northris/ Easting	TMAE	TOTAL WATER	UP-CURE SAMPLE	TURBIOTY	OPS FILE NAME	TYNAI STAGE	TYPE OF WOM & DISTANCE FROM	MOMBER OF HOURS
		1462	DEPTH (III)	DEPTH (tt)	(ALLAN)	1 .		LOCATION	OREDOING .
	2693349	1405	1997	10	7.1	NIA	Flood	45/1	<1
	818016	405	AVERAGE	1:7	18			from evilabl	
			AVERAGE	URDIUI Y.					
	<u></u>	<u> </u>							***************************************
			AVERAGE	URDEALT:	L.,	J			
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	1								
,			AVERAGE	TURBIDITY;	L	J			
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		•	AVERAGE	NABIDITY;			A		
							1	1	10000000000000000000000000000000000000
						1	[
		<u></u>	AVERAGE	TURBIDITY:		<u> </u>	I		
					,				Α.
									•
				DOWN-CU	RENT				
Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER	BAMPLE DISPTH (II) 2 F-J	TURBIDITY (NTUs)	GPS FILE WANE	TIDAL STAGE	DISTANCE FROM DREDGEFALT CARTAIN	NUMBER OF HOURS DREDGING
	2693626, 81 7 905	1430	1364	G FF	6.9	NIA	Flord	Sittentan	41
	6(+10)	11430	TURBIDITY	II 47	2.0	<u> </u>	L'` <u>`</u>	SIT CUTTAL	<u> </u>
			LUNGHUNTY	INCAREASONE:	<u> </u>	j.			
							·	-	
	<u> </u>	L	TURBIDITY	NCREASE:			L		
Wat van						I			
								1	
		I.,	TURBIDITY	NCREASE;		·			
									VVVV
······································	I	T	TURBIDITY	NCREASE:			<u> </u>		<u> </u>
	<u></u>						<u> </u>	······	
								helioristi	
	<u> </u>		TURBIDITY	NCREASE:			<u> </u>		······································
	<u></u>								
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JOB NUMBER:	New Bedford Harbor - N 6615,007.01	avigational (Tredging (2	OBPI	·			Oradge Vii	ter Quelty Monitoring Form
DATE: 6/124 MONITORS: JEC	<i></i>		· · · · · · · · · · · · · · · · · · ·			······································			Comment and Comment
WEATHER CONDITIONS:								JAV W	
WIND: PRIOR STORM EVENTS:				***************************************					
DREDGE UPDATE:				*	······································		***************************************	"是" "如何是为"是"的	然中,可以
TYPE OF WATER QUALITY THE High: 1.4	MONITORING: DREDG	Low:	OSAL	5:03	17:02				
D'Sposal				<u>5:05</u>	1 7.00				
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	**************************************			UP-CUR	RENT				
# Of generated	HORTHWG/ EASTING	TRACE	TOTAL WATER DEPTH (#)	OSPTH (R)	TURBUITY (NTUs)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM IL DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
	2695988,	8 40	11.ft	3 fr 5 fr	2.2	14/A	Flood	Tied to silterten	عار ده
	815498	8 40	1	96+	5.0	~ / /	[, , , , ,	silterten	N/A
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<u> </u>			AVERAGE	TURBIDITY:			I		
				-					
		s.							
				DOWN-GU	RRENT				
Monitoring ID#	NORTHING/ EASTING	TIME	TOTAL WATER	DEPTH (rd)	TURBERTY (NITE)	GPS FILE NAME	TIDAL STAGE	CURTAIN	HUMBER OF HOURS DREDGING
	2696518,	0415	12ft	2 ft	2.5	N/A	Rood	Tied to siltentan	MIA
	815512	0315		10 44	4.1	1 15 1	1000	silt culan	<u> </u>
			LURBIDITY	INCREASE:	1	J			
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			L_TURBIONY	INCREASE:	<u> </u>	J			
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			TURBIDITY	INCREASE:	-]		1,	
	if Avenue Technolis . I in Pro-	t transce Total	eet√						
* Turbidity Increase = Down-Curren									

OJECT: COLS EI NUMBER: TÈ: C/ COLS INTORS: C/ COLS ATHER CONDITIONS: NO: KOR STORM EVENTS:	New Bedford Harbor - N 8616.007.03	avigational D	redging &	Prais.			> 4.		rer Cuelty Monkaring Form
EOGE UPDATE:		<u> </u>						িল ভিল্প প্রমুক্ত	त हैं भी हरी देंगे देंगे र ने कर हैं।
PE OF WATER QUALITY High: 2.5			OSAL	1100					
7,000	131 1513 1W								
Diday	e Warren	<u> 41</u>	examber	النمك	<u>. </u>				···
			TOTAL WATER	UP-CURR SAMPLE				TYPE OF WOM &	NUMBER OF HOURS
Monitoring iD #	NORTHING/ EASTING	TEME	DEPTH (8)	06PTH (0)	TURBIDITY (NTUs)	GPS FILE HAME	TIDAL STAGE	LOCATION	DREDGING
	2692.093 818052	14 24	20f†	10 47	3.96	N/X	F16	L 200 ft from Hadge	2
-			AVERAGE	TURBIOITY:					
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			AVERAGE						
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Monitoring ED #	NORTHING/ EASTING	TIME		DOWN CUI	TURSIONY («UTV»)	GPS FILE NAME	TIDAL STAGE	CURTAIN	NUMBER OF HOURS DREDGING
Monitoring ID #		T 140 41 A	AVERAGE TOTAL WATER DEPTH (R)	DOWN CUI	TURRHOTTY	1	1.1مو	CURTAIN	DEEDGING
Monitoring ID #		T 140 41 A	TOTAL WATER DEPTH (N)	DOWN CUI	TURSHOTTY (*UTV)	GPS FILE NAME	1.1مو	CURTAIN	DREDGING
Monitoring €\#		T 140 41 A	AVERAGE TOTAL WATER	DOWN CUI	TURNIONTY (NTU-) 5.60	1	1.1مو	DRIEDGERSILT CURTAIN	DREDGING
Monitoring €\ \$		T 140 41 A	TOTAL WATER DEPTH (N)	DOWN CUI	TURRIDITY (MTU-) 5.60 2.74 5.80	1	1.1مو	CURTAIN	DREDGING
Monitoring ID #	2692020, 818005	T 140 41 A	TOTAL WATER DEPTH (N)	DOWN CUI	TURNIONTY (NTU-) 5.60	1	1.1مو	CURTAIN	DREDGING
Monitoring ID #		T 140 41 A	TOTAL WATER DEPTH (R) ZOFT TURBIDITY	DOWN-CUE SAMPLE BEPTIERS FINCREASE	TURKENTY (NTUR) 5.60 2.74 5.80	1	1.1مو	CURTAN L 200 FT From Vinder	DREDGISKI
Bionitoring ID #	2692020, 818005	T 140 41 A	TOTAL WATER DEPTH (N)	DOWN-CUE SAMPLE BEPTIERS FINCREASE	14/354017Y (NTUs) 5.60 2.74 5.80	1	1.1مو	CURTAN CURTAN L 200 Ft from Vodge	DREDGING
Monitoring EL #	2692020, 818005	T 140 41 A	TOTAL WATER DEPTH (R) ZOFT TURBIDITY	DOWN-CUE SAMPLE BEPTIERS FINCREASE	14/354017Y (NTUs) 5.60 2.74 5.80	1	1.1مو	CURTAN CURTAN L 200 Ft from Vodge	DREDGING
Monitoring €\ #	2692020, 818005	T 140 41 A	TOTAL WATER DEPTH (R) ZOFT TURBIDITY	DOWN-CUE SAMPLE BEPTIERS FINCREASE	14/354017Y (NTUs) 5.60 2.74 5.80	1	1.1مو	CURTAN CURTAN L 200 Ft from Vodge	DREDGING
Monitoring ID #	2692020, 818005	T 140 41 A	TOTAL WATER DEPTH (R) ZOFT TURBIDITY	DOWN-CUE SAMPLE BEPTI (R) FT INCREASE:	14/354017Y (NTUs) 5.60 2.74 5.80	1	1.1مو	CURTAN CURTAN L 200 Ft from Vodge	DREDGING
Monitoring ID #	2692020, 818005	T 140 41 A	TOTAL WATER DEPTH (R) ZOFT TURBIDITY TURBIDITY	DOWN-CUE SAMPLE BEPTI (R) FT INCREASE:	14/354017Y (NTUs) 5.60 2.74 5.80	1	1.1مو	CURTAN CURTAN L 200 Ft from Vodge	DREDGING
Bionitoring E) #	2692020, 818005	T 140 41 A	TOTAL WATER DEPTH (R) ZOFT TURBIDITY TURBIDITY	DOWN-CUE SAMPLE BEPTI (R) FT INCREASE:	14/354017Y (NTUs) 5.60 2.74 5.80	1	1.1مو	CURTAN CURTAN L 200 Ft from Vodge	DREDGING
Monitoring E) #	2692020, 818005	T 140 41 A	TOTAL WATER DEPTH (R) ZOFT TURBIDITY TURBIDITY	DOWN-CUE SAMPLE BEPTH (R) INCREASE: INCREASE:	14/354017Y (NTUs) 5.60 2.74 5.80	1	1.1مو	CURTAN CURTAN L 200 Ft from Vodge	DREDGING
Monitoring E ±	2692020, 818005	T 140 41 A	TOTAL WATER DEPTH (R) ZOFT TURBIDITY TURBIDITY	DOWN-CUE SAMPLE BEPTH (R) INCREASE: INCREASE:	14/354017Y (NTUs) 5.60 2.74 5.80	1	1.1مو	CURTAN CURTAN L 200 Ft from Vodge	DREDGING
Monitoring E\#	2692020, 818005	T 140 41 A	TOTAL WATER DEPTH (R) ZOFT TURBIDITY TURBIDITY	DOWN-CUE SAMPLE BEPTH (R) INCREASE: INCREASE:	14/354017Y (NTUs) 5.60 2.74 5.80	1	1.1مو	CURTAN CURTAN L 200 Ft from Vodge	DREDGING
Kionitoring ID. #	2692020, 818005	T 140 41 A	TOTAL WATER DEPTH (R) ZOFT TURBIDITY TURBIDITY	DOWN-CUE SAMPLE BEPTH (R) INCREASE: INCREASE:	14/354017Y (NTUs) 5.60 2.74 5.80	1	1.1مو	CURTAN CURTAN L 200 Ft from Vodge	DREDGING
Monitoring (T) #	2692020, 818005	T 140 41 A	TOTAL WATER DEPTH (R) ZOFT TURBIDITY TURBIDITY	DOWN-CUE SAMPLE BEPTH (R) FIRST INCREASE: INCREASE: INCREASE:	14/354017Y (NTUs) 5.60 2.74 5.80	1	1.1مو	CURTAN CURTAN L 200 ft from Vodge	DREDGISKI

PROJECT:	New Bodiora Harbot - M	avidanson r	Negatini 65						mer Criminy Monitoring Ponti
JOB NUMBER:	6615.007.01 1809			· · · · · · · · · · · · · · · · · · ·					
MONTORS: MA	1730-1								
WEATHER CONDITIONS:	WI CHOMA	<i>5</i> 0 △ •	···	·		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
WIND: 5-10 CAT	SSOUTHWAS	1			***************************************	······································			
PRIOR STORM EVENTS:		· · · · · · · · · · · · · · · · · · ·					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Work Princes	
DREDGE UPDATE:								186 GEN PRINCE	TELEPHONOMICS, TO
TYPE OF WATER QUALITY I	KONITORING: DREDG		OSAL						
TIDE High:		Lorer							
				UP-CURI	LENU			NOSC	
14	NORTHING! EASTING	***	TOTAL WATER	MANPLE	TURBUNTY	-		TYPE OF WOM &	NUMBER OF HOURS
Monitoring iD #	NOK I HRIGI EAS I RIG	Tinti	DEPTH (M)	OEPTH (0)	(MTULE)	GPS FILE NAME	TRUME, STAGE	DISTANCE FROM	DREDGING
061809-26)'	2692082	2880 2885 2886		2	.68				
135/829_10		<i>Q</i> 835	20'	9.	1.22]		50	
00(00)9 (20)	9317869	09/60		_\&	.71				
,	,		AVERAGE 1	TURBIOTTY:		ı			
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	<u> </u>		AVERAGE	TURBIOTTY:	1		.,,		
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		<u> </u>	4) #***	<u> </u>	ļ				
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			AVERAGE :	TURBIDITY:					
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		,	AVERAGE	DOWN-SU	RRENT			Nosc	
Monitorina IO #	NORTHANG/ EASTING	TIME	TOTAL WATER	DOWN-SU SAMPLE	TURIZIDITY	GPS FILE NAME	TIDAL STAGE	NO SC DISTANCE FROM DISCOGRAFILY	NUMBER OF HOURS
Monitoring ID #	NORTHING/ EASTING	TIME	·	DOWN-SU SAMPLE DEPTH (R)	TURE:DITY (*UTV#)	GPS FILE NAME	TIDAL STAGE	NO ECOM DISTANCE FROM DISEOSCHIT SURTAN	NUMBER OF HOURS DREDOWG
061209-DC		OPIOD	TOYAL WATER	DOWN CU SAMPLE DEPTH (A)	TURBEROITY (WYTUR)	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER	DOWN SUPERIOR DEPTH (n)	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC		OPIOD	TOTAL WATER DEPTH (R)	DOWN-CU SAMPLE DEPTH (A) 2' (2.5'	TURBEROITY (WYTUR)	GPS FILE NAME	TIDAL STAGE	DREDGERILT	
061209-DC	2692261	0900 895	TOYAL WATER	DOWN-CU SAMPLE DEPTH (A) 2' (2.5'	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R)	DOWN-CU SAMPLE DEPTH (A) 2' (2.5'	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R)	DOWN-CU SAMPLE DEPTH (A) 2' (2.5'	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R)	DOWN-CU SAMPLE DEPTH (A) 2' (2.5'	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R)	DOWN-GU SAMPLE DEPTH (R) 2' (D.5' PZ \ INCREASE:	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R) 25' TURBIDITY	DOWN-GU SAMPLE DEPTH (R) 2' (D.5' PZ \ INCREASE:	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R) 25' TURBIDITY	DOWN-GU SAMPLE DEPTH (R) 2' (D.5' PZ \ INCREASE:	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R) 25' TURBIDITY	DOWN-GU SAMPLE DEPTH (R) 2' (D.5' PZ \ INCREASE:	TUREZOITY (NTV») .59.	GPS FILK NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R) 25' TURBIDITY TURBIDITY	SAMPLE DEPTH (R) 2' (2) NOREASE:	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R) 25' TURBIDITY	SAMPLE DEPTH (R) 2' (2) NOREASE:	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R) 25' TURBIDITY TURBIDITY	SAMPLE DEPTH (R) 2' (2) NOREASE:	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R) 25' TURBIDITY TURBIDITY	SAMPLE DEPTH (R) 2' (2) NOREASE:	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R) 25' TURBIDITY TURBIDITY	BOWN CU SAMPLE DEPTH (R) 2' (C) 5 2) INCREASE: INCREASE:	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R) 25' TURBIDITY TURBIDITY	BOWN CU SAMPLE DEPTH (R) 2' (C) 5 2) INCREASE: INCREASE:	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R) 25' TURBIDITY TURBIDITY	BOWN CU SAMPLE DEPTH (R) 2' (C) 5 2) INCREASE: INCREASE:	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R) 25' TURBIDITY TURBIDITY	BOWN CU SAMPLE DEPTH (R) 2' (C) 5 2) INCREASE: INCREASE:	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R) 25' TURBIDITY TURBIDITY	BOWN CU SAMPLE DEPTH (R) 2' (C) 5 2) INCREASE: INCREASE:	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (M) 25' TURBIDITY TURBIDITY TURBIDITY	DOWN CU SAMPLE DEPTH (R) 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	TUREZOITY (NTV») .59.	GPS FILK NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (R) 25' TURBIDITY TURBIDITY	DOWN CU SAMPLE DEPTH (R) 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	TUREZOITY (NTV») .59.	GPS FILK NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (M) 25' TURBIDITY TURBIDITY TURBIDITY	DOWN CU SAMPLE DEPTH (R) 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	
061209-DC	2692261	0900 895	TOTAL WATER DEPTH (M) 25' TURBIDITY TURBIDITY TURBIDITY	DOWN CU SAMPLE DEPTH (R) 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	TUREZOITY (NTV») .59.	GPS FILE NAME	TIDAL STAGE	DREDGERBLT	

TORS: \THER CONDITIONS: 0:	6615.067.01						-		
OR STORM EVENTS: DGE UPDATE:		<u> </u>	<u> </u>					man seed to deep to the	
E OF WATER QUALITY			-OSAL	· · · · · · · · · · · · · · · · · · ·					
High: X	101.16:27	Low: 0	1:150, 1	3:20					
				UP-CURF	ENT .				
Monitoring ID #	MORTHING/ EASTING	TIME	TOTAL WATER	SAMPLE.	THERMITY	GPS FILE NAME	TENAL STAGE	TYPE OF WOM & DISTANCE FROM	NUMBER OF HOL
moraustria as a	21093532,	11/18	DEPTH (n)	2. F7	(NTUs)	T		LOCATION	DRECOME
	8/8.082	11.15	17ft	9 57	0.51	N/4	Ebb	2200 ft	1
	818.082	17116	AVERAGE	URBIDITY:	1.80			tions dulit	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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Monitoring ID #	NORTHING/ EASTING	TIME	TOTAL WATER	DOWN-CUI	TUREIDITY	GPS FILE NAME	TIDAL STAGE		NUMBER OF HOL
Monitoring ID #			TOTAL WATER	DOWN-CUI SAMPLE DEPTH (B)	TUREIDITY (NTUs)			DREDGE/SILT CURTAIN	DREDGING
Monitoring D#			TOTAL WATER	DOWN-CUI SAMPLE DEPTH (B)	TUREIDITY (NTUs)			DREDGE/SILT CURTAIN	
Monitoring ID #		TIME 19 35 11 35 12 35	TOTAL WATER BEPTH (P)	DOWN-CUI SAMPLE DEPTH (B)	TUREIDITY			DREDGERSILT	DREDGING
Monitoring ED #			TOTAL WATER BEPTH (P)	DOWN-CUI SAMPLE DEPTH (R)	TUREIDITY (NTUs)			DREDGE/SILT CURTAIN	DREDGING
Monitoring ID #			TOTAL WATER BEPTH (P)	DOWN-CUI SAMPLE DEPTH (R)	TUREIDITY (NTUs)			DREDGE/SILT CURTAIN	DREDGING
Monitoring ID #			TOTAL WATER BEPTH MY	DOWN-CUI SAMPLE DEPTH (t) : 247 947 1447 INCREASE:	TUREIDITY (NTUs)			DREDGE/SILT CURTAIN	DREDGING
Monitoring ID #			TOTAL WATER BEPTH (P)	DOWN-CUI SAMPLE DEPTH (E) : 247 947 1447 INCREASE:	TUREIDITY (NTUs)			DREDGE/SILT CURTAIN	DREDGING
Monitoring D #			TOTAL WATER BEPTH MY	DOWN-CUI SAMPLE DEPTH (E) : 247 947 1447 INCREASE:	TUREIDITY (NTUs)			DREDGE/SILT CURTAIN	DREDGING
Monitoring ID #			TURBIDITY	DOWN-CUI SAMPLE DEPTH (E) 244 1447 INCREASE:	TUREIDITY (NTUs)			DREDGE/SILT CURTAIN	DREDGING
Monitoring ED #			TOTAL WATER BEPTH MY	DOWN-CUI SAMPLE DEPTH (E) 244 1447 INCREASE:	TUREIDITY (NTUs)			DREDGE/SILT CURTAIN	DREDGING
Monitoring E) #			TURBIDITY	DOWN-CUI SAMPLE DEPTH (E) 244 1447 INCREASE:	TUREIDITY (NTUs)			DREDGE/SILT CURTAIN	DREDGING
Monitoring D#			TURBIDITY	DOWN-CUI SAMPLE DEPTH (E) 244 1447 INCREASE:	TUREIDITY (NTUs)			DREDGE/SILT CURTAIN	DREDGING
Monitoring ID #			TURBIDITY	DOWN-CUI SAMPLE DEPTH (E) 244 1447 INCREASE: INCREASE:	TUREIDITY (NTUs)			DREDGE/SILT CURTAIN	DREDGING
Monitoring ID #			TURBIDITY TURBIDITY	DOWN-CUI SAMPLE DEPTH (E) 244 1447 INCREASE: INCREASE:	TUREIDITY (NTUs)			DREDGE/SILT CURTAIN	DREDGING
Monitoring D #			TURBIDITY TURBIDITY	DOWN-CUI SAMPLE DEPTH (E) 244 1447 INCREASE: INCREASE:	TUREIDITY (NTUs)			DREDGE/SILT CURTAIN	DREDGING

PROJECT: 005 JOB NUMBER: DATE: 072	New Bedford Harbor - N. 6615.007.01	avigational C	Predging @	(osfbd	9 ((91)		Divide W	ter Cuelty Monitoring Form
MONITORS: JEF WEATHER CONDITIONS:									
WIND:					~~~				Signal Life
PRIOR STORM EVENTS: DREDGE UPDATE:		<u> </u>	·						He all the H
TYPE OF WATER QUALITY	MONITORING: DREDG		OSAL	C. 19					
TIDE High: 412	17,22:09	Low: 0	3:36 , 1	51/3			<u></u>		
				UP-CURF	RENT	<u> </u>		,	
Monitoring ID #	HORTHWISI EASTENS	TIME	TOTAL WAYER DEPTH (II)	BAMPLE DEPTH (ft)	TURGROUTY (NTUS)	GPS FILE NAME	TEMAL STAGE	TYPE OF WORK & DISTANCE FROM LOCATION	eruch to Federung
	2687124, 816392	1010 1010	5ft	3 FT 3 FT 4 FT	4.23 2.85 4.55	N/A	Ebb	cz-off from dedge	
*	<u> </u>		AVERAGE						
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		·y	AVERAGE	OKOLA (Y:		1			
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			AVERAGE	TURBIDITY:	l	1.			
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				TURBIDITY:		J			
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				DOWN-CU	RENI				
Monitoring E) #	NORTHINKY EASTING	TIME	TOTAL WATER DEPTH (III)	क्षरामा (ह)	TURBIDITY (NTUs)	GPS FILE NAME		CLIPTARI	NUMBER OF HOURS DREDGING
	2687451, 816412	1025	102	耕	10.94	NIA	Elb	- Zooft Funday	
	1 8/64/7	1025	TURBIDITY		12:15	<u> </u>		tomology	
			1 OF CORLATY	INUNEACE;	<u> </u>				
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· · · · · · · · · · · · · · · · · · ·	<u> </u>	L	TURBIDITY	INCREASE:				<u> </u>	
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			TURBIDITY	NCREASE:				l	
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		B	TURBIOTTY	MCREASE		·			
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			TURBIORY	INCREASE:		I			
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PROJECT: ((4))	New Bedford Herbor - N 8615.007.01	rvigational D	redging 😤	1 100	Of.	CU	,	Credge Wi	ier Guelly Monitoring Form
DATE: 7/)									
WEATHER CONDITIONS: WIND:									
PRIOR STORM EVENTS: DREDGE UPDATE:			· · · · · · · · · · · · · · · · · · ·		······································		***************************************		
TYPE OF WATER QUALITY	MONITORING: OREDG		08AL 7:23 2	5:05					
THOSE High: 03	140, 16:12		7. D. J.		· · · · · · · · · · · · · · · · · · ·				
			·	UP-CURF	LEMT	<u> </u>		y ahaanaa aa aa aa aa aa aa aa aa aa aa aa a	
Monitoring ID #	NORTHING EASTING	TIME	TOTAL WATER DEPTH (III)	BAMPLE DEPTH (ii)	TURESIOTIY (NTVA)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
	2487826	1440	10ft	3 ()	2.90	N/A	Flood	2200 Ff	
	86517	1440	AVERAGET	SFT URBIDITY:	4.15			term dady	
	1	1				·			<u> </u>
			AVERAGE	URBIDITY			1		
	-								-
	<u> </u>		A) 875 A 675	O Marinero Carata					
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			AVERAGE 1	TURBIDITY:			[
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				·		,		•	
									,
				DOWN-CUI	RRENT				
Monitoring ID#	NORTHING/EASTING	TIME	TOTAL WATER DEPTH (R)	SAMPLE DEPTH (ft)	TURBIDAY (NTOs)	GPS FILE NAME		CURTAIN	NUMBER OF HOURS DREDGING
	2687294, 814515	15 F 15 F 15 F	1187	34 34 94	3.80 3.65 4.05	NIA	Flood	from dedge	
		1	TURBIDITY	NCREASE:					
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	<u></u>		TURRIDITY	MODE ACE.					
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	<u> </u>	<u> </u>	TURBIDITY	NCREASE:				<u></u>	
	1		TURBIOTTY	NCREASE.					
	I					, 	······		
		·	TURBIDITY	NCREASE:			***************************************		
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ROJECT: U(e) > DB NUMBER: ATE: 7/2/07 ONITIONS: EATHER CONDITIONS: IND: RIOR STORM EVENTS: REDGE UPDATE: YPE OF WATER QUALITY DE HIGH: 04		E) i Dissi	redging @	9140	<i>d</i> 51	161		Dredge W	der Cushiy Monkoting Form
		,,		UP-CURI	TMS		***************************************		······································
Monitoring &D #	HORTHING/ EASTING	TRAE	TOTAL WATER DEPTH (ff)	DEPTH (tt)	TURBUNTY (NTUs)	GPS FILE NAME	TIDAL STAGE	LOCATION	NUMBER OF HOURS DREDOING
	2087527, 816470	16:45	12Ft AVERAGE	617 1067 TURBIDITY:	0.45 1.88 4.38	N/A	Flood	from bridge	1
						<u> </u>			
	<u> </u>	.I.,	AVERAGE	TURBIDITY:					
			AVERAGE	TURBIDITY:					
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William day ware - 4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-									
				DOWN-CU	RRENT		······································		
Monitoring ID#	NORTHINO/EASTING	YIME	TOTAL WATER BEPTH RG	DEPTH (N)	TURBIOTTY (NTUs)	GPS FILE NAME		DREDGE/BILT CARTAIN	NUMBER OF HOURS DREDGING
	2687121,	17:13	11A	雑	5.58 4.89 5.23	N/A	Flood	hom hidy	. 1
W.v	<u> </u>	1	TORREIDITY	INUXEAGE;	<u> </u>	J	Marian Marian Marian Marian Marian Marian Marian Marian Marian Marian Marian Marian Marian Marian Marian Marian		
			YTKRBIDITY	INCREASE;				naganagan an an and Hilling gapagadhaga ar an an A	
		<u> </u>	TURBIDITY	INCREASE:					
									
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	<u> </u>	A PROPERTY OF THE PERSON OF TH	TURBIDITY	INCINEASE:	l	•			
			TURBIDITY	INCREASE:					
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	New Bedford Harbor - N 8615.007.01	rvigational D	redolma (2		······································	·		Common or	Mar Quality Montoding Form
MONITORS: JER									
WEATHER CONDITIONS: WIND:									
PRIOR STORM EVENTS:									
OREDGE UPDATE: TYPE OF WATER QUALITY IS	MONITORING: DREDG) (DIGP	OSAL)		·				
TIDE High: 412	e, #199 🔀	Low:	02:5	2, 14:8	?				
				UP-CURF	<u>temr</u>				
Monitoring ID #	RORTHWG! EASTING	TIME	TOTAL WATER DEPTH (A)	BAMPLE DEPTH (0)	TURBICITY (NTUs)	GPS FILE NAMI	e tidal stage	TYPE OF WORK & DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
	2696529,	11.25	1284	2 #	7·2	NIA	Ebb	200 ft	N/A - Disposa
	815466	11 55		1014	1.8		Cop		T
		!	AAEROAGE	TURBIDITY:	L				
	2697848,	14 93	40	2 44	3.9	NIA	ا دیسا	-zoift	
	814584	1433	9ft	3 67	1.5	WIM	e66	-20011	2
		. 1	AVERAGE	YTKIBRUT					
			National Contraction of the Cont						
-	,		AVERAGE	TURBIDITY:					
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		-							•
			*.	DOWN-GUI	RENT		· · · · · · · · · · · · · · · · · · ·		
Monitoring ID#	NORTHING/EASTING	тіме	TOTAL WATER DEPTH (II)	idepth (4)	TURBIDATY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SILT CURTAIN	NUMBER OF HOURS DREDGING
-	2646040;	12 15	MF	+ =	2.0	NIA	Ebb	e sooft	NA Disposal
.44.44	815316	12 15		12 41	1.9		609		
**************************************			LORGINITY	INCREASE;	L	ļ		,	***
	2697225,	14 40	12F+	7.13	IV NO AND NO IS NO	41/4	201	2 200 ft	
	814573	1246	(#T)	in Et	18 41	14.11	EH	_ ,,,,,	2
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- 		7	TURBIDITY	INCREASE:					
			***************************************			**************************************			
			TURBIOTTY	INCREASE:					
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			TURBIDITY	INCREASE:				-	
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* Trickish forces and a Plant Prince	Avanage Turbidity - Up-Current	Average Turbin							

JOB NUMBER:	New Bedford Harbor - N 8615,007.01	evigational D	tredging @	Pack	x H	ina		Dradea W	ther Custing Monitoring Form
MONITORS: JER					·	· —			district the second second second second second second second second second second second second second second
WEATHER CONDITIONS:								AVE	
WIND: PRIOR STORM EVENTS:									
DREDGE UPDATE: TYPE OF WATER QUALITY I	ONSTORING: OREDG))	OSAL					124 HOLD 100 THUS	ig f will profit that the wests of
	6 22:44			16:01	***************************************				
	·			UP-CURI	EENT				······································
Monitoring ID #	NORTHING! EASTING	THRE	TOTAL WATER DEPTH (#)	SAMPLE DEPTH (R)	TURRENDITY (NTUs)	GPS FILE NAME	TEDAL STAGE	LOCATION	NUMBER OF HOURS DREDGING
	2697438, 814452	0130	18ft	9 1	1.22	NA	Flood	<200ft	ı
	814452	0730		1637	0.68		1,444	tron dedy	
			AVERAGE	LASSE ALT.	1				110
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			AVERAGE	TURBIOTTY:			J		<u> </u>
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		I	AVERAGE	TURBIOITY:	t		·	I	
		<u> </u>	<u> </u>		<u> </u>	I			
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		1	AVERAGE	URBIDITY:				I	
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			AVERAGE	rungiony:			l		
		•							
Vigorania markata de la compania de la compania de la compania de la compania de la compania de la compania de			******* WATER	DOWN-CUI				DISTANCE FROM	NUMBER OF HOURS
Monitoring ID #	NORTHING/EASTING	TIME 10/5	TOTAL WATER	DEPTH(R)	TURBIOTY (NTUS)	GPS FILE NAME		DREDGE/SILT CARTAIN	DREDGING
	2697663 814524	10.5	16ft	2 P	1.02	N'A	8/00d	From dide	, 1
		1.16.15	TURBIDITY	IA AT	n.98	 	L	will creeky	

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	<u> </u>	.	TURBIDITY	INCREASE:					
			TURBIDITY	NCREASE:					***************************************
									Mark 13 to 1
			TURBIDITY	NCREASE:					
									······································
	,		TURBIOTY	NCREASE:	, .				- 1

TORS: \F.() HER CONDITIONS:	8615.067.01 1	avigational E	nedahan (7:1 1	ertte:	<i>a 3</i> 1		Denoge W	siar Quality literateding Form
STORM EVENTS: GE UPDATE:	7	7							
OF WATER QUALITY	MONITORING: DREDG		OSAL 7 : 0 (e	10:08					
High: /:	32, 13,24	<u> </u>	1:5/30	~····			***		
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				<u>up-curu</u>	RENT				•
Monitoring ID#	NORTHING/ EASTING	光地扩	TOTAL WATER DEPTH (0)	SAMPLE CHEPTH (III)	TURBOUTY (AUTUR)	GPS FILE NAME	TEDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	NUMBER OF HOURI DREEKING
//	816454,	13.58	infl	3#	1.6	NIA	٠, ۵	-200 f	
	2687223	1358	61-1	4.7+	2-3		Flore	from deldge	41_
			AVERAGE	TURBIOTTY:	1	<u> </u>		3	
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			AVERAGE	TURBIDITY:	İ				
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<u></u>	<u> </u>		AVERAGE	TURBIDITY:			4		
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				<u>DOWN-GU</u>				DIETANCE FROM	
Monitoring ID#	NORTHING/EASTING	TIME	TOTAL WATER DEPTH (IQ	SAMPLE DEPTH [c]	TUREIDITY (MTVa)	GPS FILE NAME		CHRTAIN	Number of Hour Dredging
Monitoring ID#	816413,	140%	ру нтчуд	SAMPLE DEPTH [0]	TURBIDAY (MTVs)	7		DREDGE/SILT CURTAIN	DREDGING
Monitoring ID #	NORTHING/EASTING - 816413, 2687594		8ft	SAMPLE DEPTH [tt] 2 [T	TUREIDITY (MTVa)	GPS FILE NAME		DREDGERSLT	DREDGING
Monitoring ID #	816413,	140%	8ft	SAMPLE DEFTH [0] 2 FT	TURBIDITY (NTVa)	7		DREDGE/SILT CURTAIN	DREDGING
Monitoring ID #	816413,	140%	8ft	SAMPLE DEPTH [tt] 2 [T	TURBIDITY (NTVa)	7		CHIAN COLOR	DREDGING
Monitoring ID #	816413, 2687594	140%	8ft	SAMPLE DEPTH [tt] 2 [T	TURBIDITY (NTVa)	7		DREDGE/SILT CURTAIN	DREDGING
Monitoring ID #	816413, 2687594	140%	8ft	SAMPLE DEPTH IN	TURBIDITY (NTVa)	7	Flod	CHIAN COLOR	DISEDONA
Monitoring ID #	816413, 2687594	140%	SFT TURBIDITY	SAMPLE DEPTH IN	TURBIDITY (NTVa)	7	Flod	CHIAN COLOR	DREDGING
Monitoring ID #	816413, 2687594	140%	SFT TURBIDITY	SAMPLE DEPTH IN	TURBIDITY (NTVa)	7	Flod	CHIAN COLOR	DREDGING
Monitoring ID #	816413, 2687594	140%	SFT TURBIDITY	SAMPLE DEPTH (R) 2	TURBIDITY (NTVa)	7	Flod	CHIAN COLOR	DREDGING
Monitoring ID#	816413, 2687594	140%	BETH (R) SFT TURBIDITY TURBIDITY	SAMPLE DEPTH (R) 2	TURBIDITY (NTVa)	7	Flod	CHIAN COLOR	DREDGING
Monitoring ID #	816413, 2687594	140%	BETH (R) SFT TURBIDITY TURBIDITY	SAMPLE DEPTH (R) 2	TURBIDITY (NTVa)	7	Flod	CHIAN COLOR	DREDGING
Monitoring ID #	816413, 2687594	140%	BETH (R) SFT TURBIDITY TURBIDITY	SAMPLE DEPTH [R] 2	TURBIDITY (NTVa)	7	Flod	CHIAN COLOR	DREDGING
Monitoring 1D #	816413, 2687594	140%	BETH (R) SET TURBIDITY TURBIDITY	SAMPLE DEPTH [R] 2	TURBIDITY (NTVa)	7	Flod	CHIAN COLOR	DREDGING
Monitoring ID #	816413, 2687594	140%	BETH (R) SET TURBIDITY TURBIDITY	SAMPLE DEPTH [R] 2	TURBIDITY (NTVa)	7	Flod	CHIAN COLOR	DREDGING
Monitoring ID #	816413, 2687594	140%	BETH (R) SET TURBIDITY TURBIDITY	SAMPLE DEPTH [R] 2	TURBIDITY (NTVa)	7	Flod	CHIAN COLOR	DREDGING

PROJECT: 665 OB NUMBER: DATE: 71169 NONITORS: WEATHER CONDITIONS: WIND: PROR STORM EVENTS: REDGE UPDATE: TYPE OF WATER QUALITY IN RIDE High: 03		E) / DISP	OSAL	2:44	Alco	iarde:	Sodh		for Quality Worksdring Form
·	· · · · · · · · · · · · · · · · · · ·			UP-CURE	RENT			······································	——————————————————————————————————————
Monitoring tO #	NORTHERE EASTENG	TIME	TOTAL WATER DEPTH (M)	Bample Depth (II)	TURGRIDITY (NTUA)	GPS FILE NAME	TICAL STAGE	TYPE OF WOM 8. DISTANCE FROM LOCATION	NUMBER OF HOURS OFEDGING
	2677401 814498	1346	19ft	2 f f 9 f j	1.46	N/A	Hord	~200ff	2
	<u> </u>	L1346	AVERAGE 1	URBIDITY:	3.11			Hom Ceage	· · · · · · · · · · · · · · · · · · ·
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		T	AVERAGE	GRBIOITY:		f			****
-	<i>'</i>		AVERAGE	TURBIDITY:					**************************************
		<u> </u>	AVERAGE	TURBIDITY:					The state of the s
\$			· · · · · · · · · · · · · · · · · · ·						
				TURBIDITY:				-	
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				DOWN-CUI	RENT		······································		······································
Monitoring ID#	NORTHING/ EASTING	TIME	TOTAL WATER DEPTH (N)	SAMPLE DEPTH (R)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/RILT CURTAIN	Number of Hours Dredging
	2697641, 814482	1405 1485 1405	174	文注	5.61 2.61	NA	Hord	000 ft	Z
	8/1782	1405	TURBIDITY		1.21			from bradge	**************************************
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			TURBIDITY	INCHEASE:) 		 	
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			TURBIDITY	INCREASE:					
		1	TURBIOTY	NCREASE:					
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NBH Navigational Dredging WCM Spreadsher.

* Turbidity Increases = Down-Cureeri Average Turbidity - Up-Current Average Turbidity

JOB NUMBER:	\$615.007.01			<u> </u>					
DATE: 7/22/67						· ····································			
WEATHER CONDITIONS:									
WIND:								aran I	among tig
PRIOR STORM EVENTS:				1.00000 - Cardonna - C			***************************************		
DREDGE UPDATE: TYPE OF WATER QUALITY &	ONITORING: DREDG	E) / DISP	OSAL						
TIDE High: O'C	4 2100			07		, , , , , , , , , , , , , , , , , , , 			
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1									
		,	***************************************	UP-CURF	ENT				***************************************
		1335 TME						TYPE OF WOM &	and the second second second second second
Monitoring IO #	NORTHWISE EASTENS	THE	TOTAL WATER DEPTH (H)	SAMPLE DEPTH (ft)	TURCBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	MUMBER OF HOURS DREDGING
***************************************	2689034	135		241	0.62	I		2200 ft	
	2689634, 816181	1835 1835	19ff	9 57	5.22	N/4	Ebb	For deade.	41
	i oleto.	1/233	AVERAGE	TURBIOITY:	3.2-7	<u> </u>	<u> </u>	Jimere J	
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	,		AVERAGE	TURBIDITY:		j			
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		<u> </u>	AVERAGE	TURBIDITY:				**************************************	***************************************
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		-	AVERAGE	TURBIDITY:					
			AVERAGE	J TURBIDITY: DOWN-CU	RESUL				
Monitoring IV #	NON THING/ FASTING	L400	TOTAL WATER	DOWN-CU	TURBIDITY	GPS FILE NAME	TIDAL STAGE	DISTANCE PHOM DISTANCE PHOM	NUMBER OF HOURS
Monitoring ID #	NORTHING/EASTING	TIME	-	DOWN-CU SAMPLE DEPTH (R)	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DREDGE/SILT CURTAIN	NUMBER OF HOURS OREDOING
Monitoring K3 #		IME IMOD	TOTAL WATER	DOWN-CUI SAMPLE DEPTH (R)	TUREIDITY (NYUs) Z.34	T		DREDGE/SILT	OREDAING
Monitoring IO#	NORTHING/EASTING 2088794, 8/6234	TIME	TOTAL WATER OPPTHING	DOWN-CUI SAMPLE DEPTH (R) 22-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-	TURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE	DREDGE/SILT CURTAIN	NUMBER OF HOURS OR/EDGING
Monitoring R) #		IME IMOD	TOTAL WATER	DOWN-CUI SAMPLE DEPTH (R) 22-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-	TURESDITY (NTUs) 2.34 2.35	T	1	DREIGERSILT CURTAIN 2 Zuro ff	OREDAING
Monitoring R) #		IME IMOD	TOTAL WATER OPPTHING	DOWN-CUI SAMPLE DEPTH (R) 22-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-	TURESDITY (NTUs) 2.34 2.35	T	1	DREIGERSILT CURTAIN 2 Zuro ff	OREDAING
Monitoring #3.#		IME IMOD	TOTAL WATER OPPTHING	DOWN-CUI SAMPLE DEPTH (R) 22-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-	TURESDITY (NTUs) 2.34 2.35	T	1	DREIGERSILT CURTAIN 2 Zuro ff	OREDAING
Monitoring ID #		IME IMOD	TOTAL WATER OPPTH (F)	DOWN-CUI SAMPLE DEPTH (R) 244 1947 1947 INCREASE	TURESDITY (NTUs) 2.34 2.35	T	1	DREIGERSILT CURTAIN 2 Zuro ff	OREDAING
Monitoring ID #		IME IMOD	TOTAL WATER OPPTH (F)	DOWN-CUI SAMPLE DEPTH (R) 22-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-	TURESDITY (NTUs) 2.34 2.35	T	1	DREIGERSILT CURTAIN 2 Zuro ff	OREDAING
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MONITORS: WEATHER CONDITIONS: WIND: PRIOR STORM EVENTS:									
DREDGE UPDATE:		×							
TYPE OF WATER QUALITY N		Lows 6	OSAL 38. 200	63	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		······································		
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				UP-CUR	RENT				<u></u>
Mositoring ID#	NORTHING/ EASTING	TIME	TOTAL WATER	SAMPLE ()@PTH (0)	(MTM)	GPS FILE NAM	E TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	HUMBER OF HOURS DREDGING
	816 195, 2688801		22C)	20ft	4.55 4.28 5.03	NA	Flood	<200ff	< 1
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				DOWN-CUI	RRENT				
Monitoring ID#	NORTHING EASTING	TIME	TOTAL WATER DEPTH (IV)	depth (4)	TURBIDATY (*TU*)	GPS FILE NAM	E TIDAL STAGE	DISTANCE FROM DREDGE/SILT CURTAIN	NUMBER OF HOURS OREDGING
	816379°. 2688456	210	14ft	34	3.61	NA	Flood	i200f/	</td
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			TURBIDITY	ENCREASE:					
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REDGE UPDATE: YPE OF WATER QUALITY IN DE High: 15 C	NOMITORING: DREDG	E / DEP	OSAL 1472	74:25					et per speriorite i i enter c
				UP-CURI	ENI				
Monitoring ID #	NORTHING! EASTING	TIME	TOTAL WATER	Sample Depth (b)	TURRENOETY (INTUA)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	Number of Hours predoing
	2687522	13:48	AVERAGE	S.F. TURBIDITY:	7.73 2.94 3.03	NA	Flood	£ 200	4
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	1		AVEDAGE:	TURBIDITY:		1	<u> </u>		
				DOWN-CUI	RENT				
Monitoring ID #	NORTHING! EASTING	TIME	TOTAL WATER		TURE(DITY (WTV#)	OPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SILT	NUMBER OF HOURS OPENOING
	816373. 2687156	14:10	8-f+	3#	4.36	NH	Flood	4.200	٧ /
	748 7 170	14:11		GFT INCREASE:	4.67				
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			TURBIDITY	INCREASE:					
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		1	TURBIORY	NCREASE:					
		L	TURBIDITY	NCREASE:					

PROJECT: (S New Bedford Harbor - Navigational Disagging & SDI/T 1927) NAL. JOR NUMBER: 9616.007.01 DATE: X 3 9								A	Committee of the control of the cont
MONITORS:									
WEATHER CONDITIONS:							4		
WIND: PRIOR STORM EVENTS:						· · · · · · · · · · · · · · · · · · ·			THE PERSON NAMED IN COLUMN 1
DREDGE UPDATE:								- 1 4 0 445 1410 551	
TYPE OF WATER QUALITY I	MONITORING: DREDG		OSAL.	4 • 31					
TIDE High: [1]	7, 13:42	Low: U	128 , 1	7131		· ·			
									*
				UP-GUR	WINT		·····		· · · · · · · · · · · · · · · · · · ·
Monitoring ID #	NORTHING! EASTING	TIME	TOTAL WATER DEPTH (II)	OEPTH (0)	TURSIDITY (NTUS)	GPS FILE NAME	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	HUNDER OF HOURS
	8)6182, 268962	17:48	214	20	0.75	N/A	EM.	a200 At	2
	1 200104	1///178	AVERAGE	TURBIDITY:	9-11			Tran decape	
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Monitoring © #	NORTHING EASTING	тіма.	TOTAL WATER		ERENT TURBUITY (NTUR)	GPS FILE NAME	: Tidal, Stage	DISTANCE FROM DREDGEISTLY CLIDTAIN	NUMBER OF HOURS DREEGING
Monitoring to #		18:05	CEPTH (PC)	SAMPLE DEFTH (A)	TURBIDITY (NTV#)	1		DISTANCE FROM DREDGERSLY CURTAIN	DREDBING
Monitoring (C) #	8/6253,	18:05	TOTAL WATER DEPTH FO	SAMPLE DEPTH (A)	TURBIDITY (NTV#)	GPS FILE NAME	TIDAL STAGE	CURTAIN	NUMBER OF HOURS DREDGING
Monitoring (C) #		18:05	ZOFT	SAMPLE DEFTH (A)	TURBIDITY (NTV#)	1		DREDGERSLT CURTAIN	DREDAING
Monitoring © #	8/6253,	18:05	ZOFT	SAMPLE DEPTH (A) 2 FT 10 FT	TURBIDITY (NTV#)	1		CURTAIN	DREDBING
Monitoring ID #	8/6253,	18:05	ZOFT	SAMPLE DEPTH (A) 2 FT 10 FT	TURBIDITY (NTV#)	1		CURTAIN	DREDBING
Monitoring to #	8/6253,	18:05	ZOFT	SAMPLE DEPTH (A) 2 FT 10 FT	TURBIDITY (NTV#)	1		CURTAIN	DREDBING
Monitoring to #	8/6253,	18:05	ZOFT	SAMPLE DELTH (R) 2 FF (P FF) IR FF INCREASE:	TURBIDITY (NTV#)	1		CURTAIN	DREDBING
Monitoring to #	8/6253,	18:05	ZOFT TURBIDITY	SAMPLE DELTH (R) 2 FF (P FF) IR FF INCREASE:	TURBIDITY (NTV#)	1		CURTAIN	DREDBING
Monitoring © #	8/6253,	18:05	ZOFT TURBIDITY	SAMPLE DELTH (R) 2 FF (P FF) IR FF INCREASE:	TURBIDITY (NTV#)	1		CURTAIN	DREDBING
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Monitoring ID #	8/6253,	18:05	ZOFT TURBIDITY	SAMPLE DEPTH (n) 2 FF (0 FT (INCREASE:	TURBIDITY (NTV#)	1		CURTAIN	DREDBING
Monitoring ID #	8/6253,	18:05	ZOFT TURBIDITY TURBIDITY	SAMPLE DEPTH (n) 2 FF (0 FT (INCREASE:	TURBIDITY (NTV#)	1		CURTAIN	DREDBING
Monitoring to #	8/6253,	18:05	ZOFT TURBIDITY TURBIDITY	SAMPLE DEPTH (n) 2 FF (0 FT (INCREASE:	TURBIDITY (NTV#)	1		CURTAIN	DREDAING
Monitoring to #	8/6253,	18:05	ZOFT TURBIDITY TURBIDITY	SAMPLE DEPTH (n) 2 FF 10 FT INCREASE: INCREASE: INCREASE:	TURBIDITY (NTV#)	1		CURTAIN	DREDBING
Monitoring to #	8/6253,	18:05	ZOFT TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEPTH (n) 2 FF 10 FT INCREASE: INCREASE: INCREASE:	TURBIDITY (NTV#)	1		CURTAIN	DREDAING
Monitoring to #	8/6253,	18:05	ZOFT TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEPTH (n) 2 FF 10 FT INCREASE: INCREASE: INCREASE:	TURBIDITY (NTV#)	1		CURTAIN	DREDBING
Monitoring © #	8/6253,	18:05	ZOFT TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEPTH (n) 2 FF (SAT) INCREASE: INCREASE: INCREASE:	TURBIDITY (NTV#)	1		CURTAIN	DREDBING
Monitoring © #	8/6253,	18:05	ZOFT TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEPTH (n) 2 FF (SAT) INCREASE: INCREASE: INCREASE:	TURBIDITY (NTV#)	1		CURTAIN	DREDBING
Monitoring to #	8/6253,	18:05	ZOFT TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEPTH (n) 2 FF (SAT) INCREASE: INCREASE: INCREASE:	TURBIDITY (NTV#)	1		CURTAIN	DREDBING
Monitoring to # *Turbidity Increase = Down-Current	\$/\$2\$\$, 268\$\$71	18:05 18:05	ZOFT TURBIDITY TURBIDITY TURBIDITY TURBIDITY	SAMPLE DEPTH (n) 2 FF (SAT) INCREASE: INCREASE: INCREASE:	TURBIDITY (NTV#)	1		CURTAIN	DREDBING

PROJECT: GGTS New Bedford Harbor - New Sectional Dredging @ PACICOL JOB NUMBER: 6618.007.91 DATE: GGTS New Section Se							Canaga Well County Monkosing Form		
TIDE High: OS \ 3	11. 18:01.	Low:	- دە						
									e e
				UP-CUR!	RENT				
Monitoring 10 #	NORTHWGI EASTING	TIME	TOTAL WATER DEPTH (II)	SAMPLE DEPTH (II)	TURBINTY (NTUS)	GPS FILE NAMI	TIDAL STAGE	TYPE OF WOM & DISTANCE FROM LOCATION	NUMBER OF HOURS DREDGING
	814459, 2627627	10:10 10:10 10:10	125+	2 ft 6 ft 10ft TURBIDITY:	0.31	N/A	EHB	2200Ft	2
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			1						•
		<u> </u>	AVERAGE	TURBIDITY;					
			T						www.wagaaaaaa
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			AVERAGE	TURBIOTTY:	<u> </u>				
			1						
		<u>.</u>	AVERAGE	TURBIDITY:	<u> </u>		1		
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			AVERAGE	TURBIDITY;		j			· ·
	-			DOWN-CU	RENT		-		· · · · · · · · · · · · · · · · · · ·
. Monitoring ID#	NORTHING/ EASTING	TIME	TOYAL WATER	SAMPLE DEPTH (%)	TURREDITY (#TU+)	GPS FILE NAME	TIDAL STAGE	DISTANCE FROM DREDGE/SILT CURTAIN	NUMBER OF HOURS DREDGING
	2697425	1025	18ft	2.57 7.67	2.01	MIA	Ebs	< 200f	2.
			TURBIDITY	INCREASE:					
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			TURBIDITY	INCREASE:			·		
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· · · · · · · · · · · · · · · · · · ·		1	TURBIDITY	INCREASE:		VP-11173-1	<u> </u>		
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			TURBIDITY	INCREASE:					
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PROJECT: GG15	New Bedford Harbor - N	avigational D	redping 😢	بيتوقة				Chedge VI	der Cuality Monitoding Form
JOB NUMBER: DATE: \$/20/04	9615.007.05		 						
MONITORS:									
WEATHER CONDITIONS: WIND:									
PRIOR STORM EVENTS:									
DREDGE UPDATE: TYPE OF WATER QUALITY I	IONITORING: DREDG	E) DISP	OSAL.		·			The state of the s	as processing the second of th
TIOE High: 1-12		Low:						•	
\$:(8,20142	2:	el, 18:5	7					•
				UP-CURE	LENT				
Monitoring ID #	NORTHING! EASTING	THE	TOTAL WATER DEPTH (A)	SAMPLE DEPTH (II)	TURBIDITY (NTUs)	OPS FILE NAME	TEDAL STAGE	LOCATION	NUMBER OF HOURS DREDGING
	814583, 2697355	1426	1884	79;	3-15	NIA	Fld	czosti framdedge	4
,	1 0011333	1425	AVERAGE	TURBIOTTY:	1.21		<u> </u>	1	
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	J.,.,		AVERAGE	TURBIDITY:	İ			-T	
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			AVERAGE	TURBIDITY:		I " -			
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				TURBIDITY:					
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				DOWN-CU	RRENT				
	as more well and the P' & according		TOTAL WATER		TURBIDITY	ADA 20 2 11412		DISTANCE FROM	NUMBER OF HOURS
Monitoring ID#	NORTHING/ EASTING	TIME	DEPTH (A)	DEPTH (R)	(NTUs)	GPS FILE NAME		CURTAIN	DREOGIAG
	814529, 2697587	1442	1684	部	2.24	NIA	flood	tran Nedge	4
	1 2617387	7445	1011	<u> 14 हेर्</u>	3.2/	<u> </u>	1 1 med	tion deage	<u> </u>
			URBIOTY	INCREASE;		J			
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	L	.l	TURBIDITY	INCREASE:			<u> </u>	Ł	
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PROJECT: GQ 5 New Bedford Harbor - Navigartional Drodging @ SOUTH FOLL MAD JOB NUMBER: 9815.007.01 DATE: 5 2 5 0 1 MONITORS: WEATHER CONDITIONS: WIND: PRIOR STORM EVENTS: DREDGE UPDATE: TYPE OF WATER QUALITY MONITORING: OREDGE / DISPOSAL TIDE High: 12 2 8 1 Low: 5:12 180 2								Credge Water Quelty Monitoring Form		
		Tade	TOTAL WATER	UP-CURF	REMT		••••••••••••••••••••••••••••••••••••••	TYPE OF WOM &	Number of Hours	
Monitoring ID #	NORTHING! EASTEIG	16:46	(II) HTGGG	DEPTH (ft)	(NTUs)	GPS FILE NAME	TRAL STAGE	LOCATION	DREDGNO	
	816308, 2688520	110.46	17ft	154	5.20	N/A .	Ebb	200 ft from dedge	<u>~</u>	
	1616 20, 10XK250	116.40	AVERAGE.		5.58	l	· · · · · · · · · · · · · · · · · · ·			
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				DOWN-CU	RENI	Alian Alian Alian Alian Alian Alian Alian Alian Alian Alian Alian Alian Alian Alian Alian Alian Alian Alian Al		.,		
Wonitoring ID#	NORTHING/EASTING	TIME	TOTAL WATER	SAMPLE DEPTH (6)	YURBIDITY (NTUs)	GPS FILE NAME	TIDAL STAGE		MUMERER OF HOURS DREDGING	
	816219,	17:00		2.5+	2.89	<u> </u>	J ,	CURTAIN	DECOSIOS.	
	2688795	17:00	2187	1977	3.74	NYA	Ebb	czooff from drodge	<	
			TURBIDITY			j	······································	<i>t</i>		
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* Turbinity Increases * Down-Curren	d Average Turbitily - Up-Current	Average Turbic	Ry .							